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# ALKALI METALS BOILING AND CONDENSING INVESTIGATIONS

## Quarterly Progress Report 8

Edited by  
F. E. TIPPETS

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ALKALI METALS BOILING AND CONDENSING INVESTIGATIONS

QUARTERLY PROGRESS REPORT 8

Covering the Period  
April 1, 1964 through June 30, 1964

Edited by

F. E. Tippets

prepared for

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Contract NAS 3-2528

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## FOREWORD

Principal technical contribution to the program, within the General Electric Company, during the Quarter was by the following individuals.

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Facilities	J. C. Amos R. A. Fuller
Instrumentation	W. H. Bennethum
Materials Support	W. R. Young
Analysis	G. L. Converse
Report Preparation	G. L. Converse

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## NOMENCLATURE

The symbols and units listed below are used in all derivations. The symbols listed below are occasionally used with other units in the figures, tables, or in the written text. Whenever this is done, the appropriate units are indicated.

### Latin Letter Symbols

#### Simple Latin Letter Symbols

<u>Symbol</u>	<u>Quantity</u>	<u>Units</u>
A	Area	ft <sup>2</sup>
C	A constant ( $C = \frac{1}{2} C_{fail}$ )	Dimensionless
c	A constant ( $c = f N_{Re}^n$ )	Dimensionless
D	Diameter	ft.
E	Modulus of elasticity	lb <sub>f</sub> /ft <sup>2</sup>
f	Friction factor	Dimensionless
G	Mass velocity (mass flow rate per unit flow area)	lb <sub>m</sub> /hr-ft <sup>2</sup>
g	Acceleration due to gravity	$4.17 \times 10^8$ ft/hr <sup>2</sup>
h	Heat transfer coefficient	Btu/hr-ft <sup>2</sup> °F
k	Thermal conductivity	Btu/hr-ft <sup>2</sup> °F
L	Length	ft
P	Pressure	lb <sub>f</sub> /ft <sup>2</sup>

# NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Quantity</u>	<u>Units</u>
Q	Power	Btu
q	Rate of heat flow	Btu/hr
r	Radius of pipe	ft
S	Area of insulation	ft <sup>2</sup>
T	Temperature	°F
U	Overall heat transfer coefficient	Btu/hr-ft °F
V	Velocity	ft/hr
W	Mass flow rate	lb <sub>m</sub> /hr
X	Thickness of insulation	ft
x	Flowing mass quality ( $x = \frac{W_g}{W}$ )	Dimensionless
y	Radial distance from the tube wall ( $y = r_o - r$ )	ft

## Composit Latin Letter Symbols

<u>Symbol</u>	<u>Quantity</u>	<u>Units</u>
BOP	Boiler exit pressure	psia
C <sub>p</sub>	Constant pressure specific heat	Btu/lb <sub>m</sub> °F
g <sub>c</sub>	Conversion factor	$4.17 \times 10^8 \frac{\text{ft lb}_m}{\text{lb}_f \text{ hr}^2}$
N <sub>fail</sub>	Cycles to failure	Dimensionless
N <sub>Nu</sub>	Nusselt number ( $N_{Nu} = \frac{hD}{k}$ )	Dimensionless
N <sub>Pe</sub>	Peclet number ( $N_{Pe} = \frac{GDC_p}{\mu}$ )	Dimensionless
R.A.	Percent reduction in area at failure	Dimensionless



## NOMENCLATURE (Continued)

### Greek Letter Symbols

#### Simple Greek Letter Symbols

<u>Symbol</u>	<u>Quantity</u>	<u>Units</u>
$\Gamma$	Mass flow rate of liquid per unit circumference ( $\Gamma = (1-x) W/\pi D$ )	$\text{lb}_m/\text{hr-ft}$
$\delta$	Liquid film thickness	ft
$\Delta$	Finite difference	Dimensionless
$\mu$	Dynamic viscosity	$\text{lb}_m/\text{hr-ft}$
$\nu$	Kinematic viscosity or momentum diffusivity	$\text{ft}^2/\text{hr}$
$\rho$	Mass density	$\text{lb}_m/\text{ft}^3$

#### Composite Greek Letter Symbols

<u>Symbol</u>	<u>Quantity</u>	<u>Units</u>
$\epsilon_{fail}$	Fracture ductility	Dimensionless
$\epsilon_p$	Plastic strain	Dimensionless
$\sigma_a$	Elastically computed stress	$\text{lb}_f/\text{ft}^2$
$\sigma_e$	Endurance limit or fatigue strength at $10^7$ cycles	$\text{lb}_f/\text{ft}^2$
$\Delta i$	Temperature drop associated with vapor heat transfer resistance ( $\Delta i = T_g - T_f$ at $y = \delta$ )	$^{\circ}\text{F}$

### Subscripts

<u>Symbol</u>	<u>Explanation</u>
ar or $\bar{\quad}$	Denotes the average value (If the quantity is already subscripted a $\bar{\quad}$ is used)
B	Boiling
BW	Boiler Wall
bott	Below the heater plate
E	Denotes the experimentally determined two phase multiplier.
elect	Electrical

# NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Explanation</u>
f	Refers to the saturated liquid
g	Refers to the saturated vapor
h	Refers to a homogeneous mixture property
i	Inside or inlet
K	Potassium
KL	Liquid Potassium
LP	Liquid phase
Lh	Liquid head
m	Measured value
mom	Momentum
NA	Sodium
n	Exponent of the Reynolds number in the friction factor equation ( $f = C/N_{Re}^n$ )
nb	Nucleate boiling
O	Refers to an all liquid reference state
OB	Overall boiling
o	Outside or outlet
P	Denotes the predicted two-phase multiplier
PRI	Primary
Sat	Saturation
SC	Subcooled
T	Total
TPF	Two-phase friction
tb	Transition boiling
W	Wall

## I. SUMMARY

F. E. Tippetts

This program is being conducted for the National Aeronautics and Space Administration under Contract NAS 3-2528 to obtain two-phase heat transfer and fluid flow data for potassium under conditions of boiling and condensing approximating those anticipated in large space turboelectric systems. Test equipment development, materials studies and theoretical analysis related to the experimental work are conducted as a support effort. The following items summarize the work performed during the quarter ending June 30, 1964.

### 300 KW Project

Testing in the 300 KW facility was resumed in May following cleaning and maintenance work described in Section V of this report. Testing continued until shutdown due to equipment failures on May 27. Since the required repairs are not major, it is expected that testing will resume early in the next reporting period. The remaining tests planned with the presently installed 2-inch pitch helical insert should be completed early in July, after which testing with a 5.5-inch pitch helical insert is planned to start.

Reduction of the data obtained during the reporting period is in progress. Previously unreported boiling and liquid-liquid data taken during 1963 are presented herein.

#### 100 KW Project

Test operation in the 100 KW facility continued throughout April without a major shutdown. The facility was shutdown on May 1 upon completion of planned test runs and in preparation for the loop modification. Modification of the loop, to increase the range of experimental variables which can be tested, is in progress. It is estimated that the modification will be completed and test operation resumed in early August.

Previously unreported liquid data taken in 1964 and the boiling data taken during the present quarter are presented herein. More Na liquid data obtained in November 1962 will be reported in Quarterly Progress Report No. 9.

#### 50 KW Project

Except for attempted start-up operations in April and June, the 50 KW facility has been shut down for repairs and equipment installation throughout the quarter (Sections IV and V). A new helical induction pump is currently being installed. Other loop repairs, including repair of the presently installed test section, have been completed.

A new nickel test section which uses drilled thermocouple holes, rather than the current slotted and brazed thermocouple hole design, is being fabricated. It is planned to perform loop shakedown and

initial test operation early in the next quarter using the presently installed slotted type test section. The new drilled type test section is expected to be available for installation by the end of July.

Previously unreported liquid-liquid data taken during 1963 are presented herein.

#### Facilities, Instrumentation and Materials Support

Detailed accountings of supporting work conducted throughout the quarter in the areas of facilities maintenance and repair, instrumentation, and materials are given in Sections V, VI and VII, respectively.

#### Analysis

Development of an analytical prediction of two-phase pressure drop for potassium is presented in Section VIII, together with comparisons with test data from the 50 KW and 300 KW facilities.

#### Pool Boiling Investigation

The effort during this quarter was directed primarily toward determination of the overall heat losses for the pool boiling apparatus. Start of test operation was delayed due to a leak in the heater chamber. This leak has been repaired and it is planned to start test operation during the next quarter.

## II. 300 KW PROJECT

J. R. Peterson

The 300 KW facility is used to obtain potassium boiling and condensing heat transfer data. Both the boiling and condensing test sections are controlled temperature types, i.e., the temperatures of the heat transfer fluids rather than the surface heat transfer are controlled. Reference 1 presents a detailed description of the facility.

Both liquid-liquid and boiling data were obtained during this reporting period with the 1.0-inch nominal diameter L-605 boiler tube containing a 2.0-inch pitch helical insert. Effort was also devoted to reduction and evaluation of previously reported data.

### Status of Loop and Test Section

Liquid metal testing in the 300 KW facility was initiated on May 6, 1964 following cleaning and maintenance procedures described in Section V of this report. Boiling operation commenced May 19 after the necessary liquid-liquid data were obtained. Boiling data were obtained until May 27, when testing was terminated by failure of an unused loop instrumentation site which caught fire. Six hundred and thirty-five hours of operation above 800°F were accumulated this

quarter, including 201 hours of boiling operation. Total loop operating time above 800°F at the end of the reporting period was 2835 hours. A total of 75 boiling runs and 18 liquid-liquid runs were made during the current quarterly period.

The failure caused only minor damage to the loop. The resulting fire, however, destroyed several instrumentation cables, the replacement of which required two weeks. The downtime was used to install new boiler pressure drop instrumentation, described in detail in Section VI of this report.

Upon startup after repairs, a failure of the potassium dump line valve bellows occurred. The bellows will be replaced with stainless steel rather than L-605. The operating temperature of this particular bellows is low enough to permit the use of the less brittle stainless steel, which should increase the reliability of the valve. The required repairs are not major and it is expected that testing will resume early in the next reporting period.

#### Status of Data Reduction

Previously unreported transient boiling and liquid-liquid data are presented. The data are tabulated and discussed according to the time period in which they were obtained. The same computational procedures used for data previously reported for the several time intervals below were used for the data presented herein.

#### Data Taken During the Period May 10, 1963 through June 28, 1963.

The boiler tube used during this period was the nominal 1.0-inch diameter Mo-0.5%Ti tube, containing no insert. Some boiling and

liquid-liquid data recorded during this testing sequence were obtained during transient conditions. The boiling data obtained with boiler temperature transients of less than 50°F per hour were reported in Reference 2, where the instrument locations and calculational procedures current at that time are described. Some of the boiling data obtained with transients greater than 50°F per hour and all the liquid-liquid data of this time period are presented in Table A-2 of Appendix A. Table A-1 is a key to the column headings of Table A-2. The data tabulated cover the following range of variables:

Sodium flow rate, lb <sub>m</sub> /sec	0	-	12.35
Potassium flow rate, lb <sub>m</sub> /sec	0	-	3.24
Potassium exit temperature, °F	673.7	-	1783.4
Sodium inlet temperature, °F	686.7	-	1857.2
Net heat transferred, Btu/sec	0	-	148.9

Data Taken During the Period August 30, 1963 through September 23, 1963. The boiler tube used during this period was the nominal 1.0-inch diameter Mo-0.5%Ti tube containing a 2.0-inch pitch helical insert. All the boiling data obtained during this time and ten liquid-liquid runs were reported in Reference 3, where the instrument locations and calculational procedures current at that time are described. Eight additional liquid-liquid points are presented in Table A-4 of Appendix A. Table A-3 is a key to the column headings of Table A-4. Several quantities computed for the boiling runs, such as the vapor quality, vapor velocity, etc., are not appropriate to liquid-liquid data and have been deleted from the tabulation. The



data tabulated for this time period cover the following range of variables:

Sodium flow rate, $\text{lb}_m/\text{sec}$	1.30	-	14.24
Potassium flow rate, $\text{lb}_m/\text{sec}$	0.36	-	1.86
Potassium exit temperature, $^{\circ}\text{F}$	1085.6	-	1177.4
Sodium inlet temperature, $^{\circ}\text{F}$	1143.3	-	1181.3
Net heat transferred, $\text{Btu}/\text{sec}$	20.5	-	64.2

Data Taken During the Period November 29, 1963 through December 31, 1963. The boiler tube used during this period was the nominal 1.0-inch diameter L-605 boiler tube containing a 2.0-inch pitch helical insert. All the boiling data obtained during this time were reported in Reference 4, where instrument locations and calculational procedures current at that time are described. The liquid-liquid data obtained during this period are presented in Table A-6 of Appendix A. Table A-5 is a key to the column headings of Table A-6. The data presented were obtained under nearly isothermal conditions during loop flushing procedures and are not useful for the computation of heat transfer coefficients. Several quantities computed for the boiling runs, such as quality, vapor velocity, etc., have been deleted from the tabulation. The data tabulated for this time period cover the following range of variables:

Sodium flow rate, $\text{lb}_m/\text{sec}$	0.11	-	13.64
Potassium flow rate, $\text{lb}_m/\text{sec}$	0.02	-	2.29
Potassium exit temperature, $^{\circ}\text{F}$	789.4	-	1610.3
Sodium inlet temperature, $^{\circ}\text{F}$	803.6	-	1623.9
Net heat transferred, $\text{Btu}/\text{sec}$	0	-	9.75

### Status of Data Evaluation

Effort this quarter was directed towards evaluation of the pressure drop results for boiling potassium obtained during the last year. Previously reported data for the frictional pressure drop of two-phase potassium in an adiabatic pipe are compared with predicted values in Section VIII of this report.

Previously reported pressure drop data (Ref. 3) for boiling potassium have also been evaluated and are presented in this section of the report. Two-phase frictional pressure drop multipliers for potassium boiling in a straight 1-inch molybdenum tube containing a two-inch pitch helical insert have been calculated and are presented in tabular and graphical form. The boiling potassium pressure drops were determined from two absolute slack diaphragm pressure transducers, and the liquid potassium pressure drops necessary to calculate the multipliers were obtained by the procedure described in Reference 4.

The measured boiling potassium pressure drop was corrected for the momentum pressure drop, the two-phase elevation pressure drop and the pressure drop due to liquid head in order to obtain the two phase frictional pressure drop. The two-phase elevation pressure drop was found to be less than 1% of the total for all runs and was neglected. The liquid head in the boiler above the inlet pressure gage was 25-inches of potassium for the runs presented. The pressure drop correction due to this liquid head is the product of the liquid head and the liquid density.

The correction for momentum pressure drop was calculated by the methods described in Reference 3. The prediction for a slip ratio of 1.0 was used, which is expected to slightly over-estimate the momentum correction.

Table 1 lists the experimental two-phase friction pressure drop multipliers. It also lists the original pressure drop data as indicated by the pressure gages, the corrections to the pressure drop, and the corresponding liquid phase pressure drop. Also tabulated are the two phase multipliers predicted by the Martinelli method, as presented in Figure 19 of this report. The data treated are labeled in the tabulation according to the date and time at which they were obtained. These data were first reported in Reference 3.

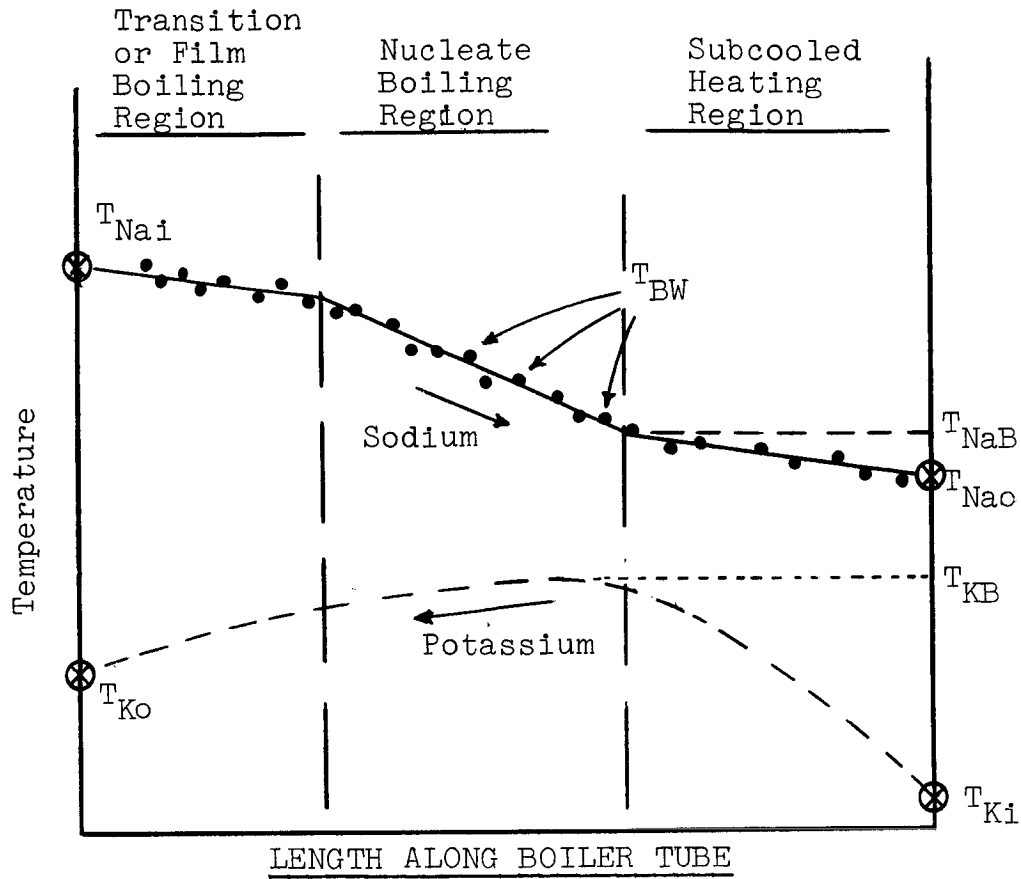
The experimental and predicted two-phase multipliers are compared in Figure 1. Seventy percent of the data fall within  $\pm 30\%$  of the Martinelli prediction. These results indicate that the Martinelli method can be used with some confidence to predict boiling potassium pressure drop in tubes with inserts. Analysis directed towards prediction of the effect of twist ratio upon pressure drop in tubes with helical inserts has been initiated. When this analysis is completed, it will be possible to predict the effect of insert twist ratio upon boiling potassium pressure drop. The results of the analysis should be similar to those shown in Figure 2, where the experimental values obtained by Seymour in testing with air (Ref. 4) for twisted tape inserts are compared with

the single value obtained to date by SPSS for the helical insert. The water data used to calculate this single point are reported in Reference 5. The analytical results for helical inserts should show variation with twist ratio similar to the experimental values shown for twisted tapes.

Evaluation of 300 KW boiling data also proceeded during this reporting period. Results are reported herein for the data obtained from 5/10/63 to 6/28/63 with the 0.938-inch ID, 0.090-inch wall Mo-0.5%Ti boiler tube without insert. The data studied were originally reported in Reference 2. The evaluation is at present preliminary and only partially complete, but some results are presented to indicate the type and trend of the heat transfer parameters obtained.

The sodium temperature profiles as indicated by the boiler shell thermocouples for the cases considered show changes in slopes in many runs (for example, see Reference 3, Figures 1 through 26) indicating up to three regions of heat transfer in the boiler tube. Sketch (a) shows a typical run, illustrating the data obtained.

The temperatures  $T_{\text{Nai}}$ ,  $T_{\text{Nao}}$ ,  $T_{\text{Ki}}$  and  $T_{\text{Ko}}$  shown on Sketch (a) are respectively the measured sodium and potassium boiler inlet and outlet temperatures. The sodium temperature profile, obtained from the measured temperature profile, is obtained from the measured temperatures of the boiler shell thermocouples ( $T_{\text{Bw}}$ ).



Sketch (a)

The temperature at which boiling initiates,  $T_{KB}$ , is calculated from the measured potassium boiler inlet pressure by use of the potassium vapor pressure curve assuming no pressure drop between  $T_{Ki}$  and  $T_{KB}$ , i.e., in the liquid region of the boiler. The heat transferred in the sub-cooled heating region ( $Q_{sc}$ ) is given by Equation (1) following,

$$Q_{sc} = W_K C_K (T_{KB} - T_{Ki}) \quad (1)$$

The sodium temperature at boiling initiation ( $T_{NaB}$ ) is obtained from the measured sodium outlet temperature ( $T_{Nao}$ ) and  $Q_{sc}$  by heat balance as follows:

$$T_{NaB} = T_{Nao} + \frac{Q_{sc}}{W_{Na} C_{Na}} \quad (2)$$

Boiling potassium heat transfer coefficients have been computed from the data illustrated in Sketch (a) for each of the boiling regions, as well as an average heat transfer coefficient for the entire boiling region. The calculational procedures used to obtain each type of heat transfer coefficient presented are summarized in separate sections following.

Average Boiling Potassium Heat Transfer Coefficient. Potassium heat transfer coefficients averaged over the entire boiling length (including both nucleate and film boiling regions) can be calculated without use of the boiler shell thermocouples. The calculational procedures employed are outlined following.

The average boiling heat flux ( $\overline{Q/A}$ ) is equal to the heat transferred in the boiling region divided by the heat transfer area of the boiling region. The heat transferred in boiling ( $Q_B$ ) is the difference between the total heat transferred ( $Q_{PRI}$ ) and the heat transferred in the subcooled heating region ( $Q_{SC}$ ). The boiling heat transfer area ( $A_B$ ) is equal to the total heat transfer area ( $A_T$ ) decreased by the heat transfer area in subcooled heating ( $A_{SC}$ ).  $A_T$  is  $1.381\text{-ft}^2$  as calculated from the 67.5-inch heat transfer length reported in Reference 2 for the no-insert data considered. Liquid sodium and liquid potassium heat transfer coefficients are necessary in order to calculate  $A_{SC}$ . Since no experimental values for the liquid coefficients have been obtained from the 300 KW facility at this time, the equations of Lyon as summarized by Lubarsky (Ref. 23) are used.

$A_{sc}$  is calculated as follows from the liquid coefficients ( $h_{Na}$  and  $h_{KL}$ ) and the thermal conductivity of the boiler tube wall ( $k_w$ ).

$$U_{oL} = \left[ \frac{1}{h_{Na}} + \frac{D \ln \left( \frac{D_o}{D_i} \right)}{2k_w} + \frac{1}{h_{KL}} \right]^{-1} \quad (3)$$

$$\bar{\Delta T}_{sc} = \frac{(T_{NaO} - T_{Ki}) - (T_{NaB} - T_{KB})}{\log_e \frac{(T_{NaO} - T_{Ki})}{(T_{NaB} - T_{KB})}} \quad (4)$$

$$A_{sc} = \frac{Q_{sc}}{U_{oL} \bar{\Delta T}_{sc}} \quad (5)$$

The average heat flux in boiling can now be obtained as follows:

$$\bar{Q}/A = Q_B/A_B = \frac{Q_{PRI} - Q_{sc}}{A_T - A_{sc}} \quad (6)$$

The overall heat transfer coefficient for the boiling region can be calculated from the average heat flux and the average sodium to potassium temperature difference. The exact manner in which the average temperature difference should be formulated has not yet been ascertained. For this preliminary evaluation, the arithmetic average of the sodium to potassium temperature differences at the beginning and end of the boiling region is employed.

$$\bar{\Delta T}_{OB} = \frac{(T_{NaI} - T_{Ko}) + (T_{NaB} - T_{KB})}{2.0} \quad (7)$$

The average overall boiling heat transfer coefficient ( $U_{OB}$ ) is obtained from the average overall boiling temperature difference ( $\bar{\Delta T}_{OB}$ ) as follows:

$$U_{OB} = \frac{\bar{Q}/A}{\bar{\Delta T}_{OB}} \quad (8)$$

Finally, the average potassium heat transfer coefficient for the boiling region ( $h_K$ ) is calculated from  $U_{OB}$  as shown in Equation (9). The necessary liquid sodium heat transfer coefficient is obtained from Lyon's equation for an annulus as discussed before.

$$h_K = \left[ \frac{1}{U_{OB}} - \frac{1}{h_{Na}} - \frac{D_i \ln(D_o/D_i)}{2 k_w} \right]^{-1} \quad (9)$$

The average boiling potassium heat transfer coefficients obtained in this manner from the no-insert data are plotted in Figure 3 as a function of the vapor quality at the potassium exit of the boiler tube.

A few of the values obtained with the 2-inch pitch helical insert are shown in Figure 4, along with the smooth lines representing the no-insert data from Figure 3. The insert heat transfer coefficients are seen to be higher than the no-insert data at high qualities.

Nucleate Boiling Heat Transfer Coefficients. In order to calculate heat transfer coefficients for the individual regions shown in Sketch (a), the heat flux in each region must be known. This information is obtained from the boiler shell thermocouples.



The average heat flux in the individual regions ( $Q/A$ ) is related to the sodium temperature gradient ( $\frac{dT_{Na}}{dL}$ ) in each region as illustrated by equation (10) following,

$$Q/A = \left( \frac{W_{Na} C_{Na}}{\pi D i} \right) \frac{dT_{Na}}{dL} \quad (10)$$

The value of  $\frac{dT_{Na}}{dL}$  for each region shown in Sketch (a) is taken equal to the slope of the straight line segment drawn through the measured boiler shell temperatures for that region.

Many of the no-insert boiling runs obtained in the time period 5/10/63 to 6/28/63 have little or no film or transition boiling region. For these runs, the overall sodium to potassium temperature difference and the end of the nucleate boiling region is given by  $T_{Na1} - T_{Ko}$ . The overall sodium to potassium temperature difference at the beginning of the nucleate boiling region is  $T_{NaB} - T_{KB}$ . The average overall sodium to potassium temperature difference used in these calculations is given as follows:

$$\overline{\Delta T}_{nb} = \frac{(T_{Na1} - T_{Ko}) + (T_{NaB} - T_{KB})}{2.0} \quad (11)$$

The overall heat transfer coefficient in the nucleate boiling region is calculated as follows from the nucleate boiling heat flux  $(Q/A)_{nb}$ , obtained from Equation (10), and the average nucleate boiling temperature difference  $\overline{\Delta T}_{nb}$ ,

$$U_{nb} = \frac{(Q/A)_{nb}}{\overline{\Delta T}_{nb}} \quad (12)$$

Equation (9) is used to calculate the potassium nucleate boiling coefficient,  $U_{nb}$  replacing  $U_{OB}$ . The potassium nucleate boiling heat transfer coefficients obtained in this manner from the no-insert data are plotted in Figure 5.

Film and Transition Boiling Heat Transfer Coefficients. A procedure similar to that used for the nucleate boiling heat transfer coefficients was used to obtain transition or film boiling heat transfer coefficients for potassium. Those runs showing a relatively large transition boiling region were selected for calculation. The overall sodium to potassium temperature difference at the end of the transition boiling region for these runs is equal to  $T_{Na1} - T_{Ko}$ . Due to the small temperature changes in the transition region, it was assumed in this initial evaluation that the average sodium to potassium temperature difference ( $\overline{\Delta T}_{tb}$ ) in the transition region is equal to  $T_{Na1} - T_{Ko}$ . In order to check this assumption, the sodium and potassium temperature changes were determined for several runs by heat balance and two-phase pressure drop calculations respectively. The error in potassium heat transfer coefficient due to this assumption was found to be less than 5%.

The overall heat transfer coefficient ( $U_{tb}$ ) in the transition region was calculated from  $\overline{\Delta T}_{tb}$  and the average heat flux  $(Q/A)_{tb}$ , where the average heat flux was determined from equation (10) as before.

$$U_{tb} = \frac{(Q/A)_{tb}}{\overline{\Delta T}_{tb}} \quad (13)$$

Equation (9) was used to obtain potassium transition boiling heat transfer coefficients,  $U_{tb}$  replacing  $U_{oB}$ . The heat transfer coefficients obtained by this procedure are plotted in Figure 6,

Discussion. The results presented are very preliminary in nature, as several questions remain to be resolved. Some of these are discussed following.

Heat Transfer Area. The heat transfer area utilized in the calculation of the average boiling heat transfer coefficients presented in Figure 3 is based upon the tube length between the thermal shields at the ends of the boiler. The effective heat transfer area is larger than that used in the calculations, since the shields are only partially effective in blocking heat transfer. A calculation is in progress to provide a correction of this effect. This effect could change the magnitude of the heat transfer coefficients markedly, as a 10% increase in the boiler area would decrease a potassium heat transfer coefficient of 20,000 by 50%.

Sodium Heat Transfer Coefficient. The accuracy of the potassium heat transfer coefficients presented depend upon the accuracy of the sodium heat transfer coefficient used in the analysis. At present, the prediction of Lyon (Reference 23) is used, which results in considerable uncertainty in the sodium coefficient. Liquid-liquid runs have been recently performed in the 300 KW facility in an attempt to obtain experimental values for the sodium coefficient, but they have not yet been fully evaluated.

Average Boiling Temperature Difference. As discussed earlier, uncertainty exists regarding the proper averaging procedure which should be employed to obtain the average boiling temperature difference. Analysis of this problem will be conducted. There is little difference between the logarithmic and arithmetic averages for the data examined, thus this is probably not a serious problem.

Thermal Conductivity of Boiler Tube. The accuracy of the heat transfer coefficients presented depends also upon the accuracy to which the boiler tube thermal conductivity is known. Inaccuracy in thermal conductivity values makes the comparison of data obtained with different boiler tubes difficult. It may prove necessary to have measurements made of this property.

Conclusions. In spite of the present uncertainty in the magnitude of the heat transfer coefficients presented, certain trends can be observed which should not be altered by subsequent refinement of the data. As can be seen from Figures 3 and 5, both the average boiling heat transfer coefficients and the nucleate boiling coefficients seem to increase with increasing boiling pressure. In addition, the helical insert is shown by Figure 4 to be effective in extending the nucleate boiling region to considerably higher qualities than obtained with the boiler tube without insert. The highest exit quality obtained without insert is 87%, whereas 100% exit quality was obtained with insert.

## Test Planning

The test plan followed in current testing is presented in Reference 4. The boiling plan specifies that the heat load to the boiler, and thus the exit vapor quality, be varied in several steps up to the limit of the facility for each of three potassium flow rates at boiling temperatures of 1200°F, 1500°F, and 1700°F. The planned boiling temperatures have been changed to 1400°F, 1550°F, and 1700°F in recent testing.

The overall objective of current testing in the 300 KW facility is to provide knowledge of the pressure losses and heat transfer coefficients for potassium boiling in straight tubes with and without inserts, as applied to the design of a space system boiler. Vapor qualities near 100% at the highest boiling temperatures of the test plan are, therefore, of most interest since these conditions are nearest the operating conditions of a space boiler. Other boiling temperatures, vapor qualities and flow rates are investigated, however, so that the experimental results may be interpreted and extrapolated, beyond the range of the data,

Multi-Tube Boiler Design (R. R. Oliver and R. S. Stankiewicz)

Mechanical Design. For this period, the design depicted in Figure 7 has remained fixed except for the following:

- 1) Potassium tube inlet temperature instrumentation location was altered.
- 2) Additional sodium bulk temperature instrumentation was provided.
- 3) The plate type orifice was replaced by a helical plug orifice at the potassium tube inlets.

Discussion in regard to the theoretical relocation of instrumentation, Items 1 and 2 above, is presented in Reference 5.

A plug type orifice can be used quite advantageously by combining it with a "wand" arrangement for potassium bulk thermocouples. A detailed illustration is shown in Figure 8. Thermocouples are positioned appropriately within the plug type orifice. This "wand" is a 1/4-inch OD by 0.050-inch thick tube, and is a primary containment for the 0.060-inch diameter sheathed thermocouples. Secondary containment is similar to that used at other thermocouple locations. A three-hole gland Conax fitting terminates the thermocouple sheaths and provides secondary containment.

In addition to design considerations discussed in Reference 5, the following items have also been studied:

- 1) Effect of Thermal Shields to Reduce Thermal Stress. The thermal shields used in this design are not considered effective insulators from a heat transfer aspect. However, from a mechanical standpoint, these shields provide an effective means of reducing excessive thermal gradients across critical structural members.

Since stress is a direct function of temperature gradient, a thermal resistance, i.e., thermal shield, will aid significantly in stress reduction. This thermal resistance reduces heat flux, and results in a decreased gradient across the member of interest.

Based upon simple thermal analysis the potassium inlet header is of concern since it separates 1850°F sodium from 1200°F potassium in the worst test case. With no thermal shielding and considering film drops, a temperature gradient of 480°F could occur. An extremely high thermal stress of 78,000 psi is produced and cyclic fatigue failure of 50 cycles or less is probable. By appropriate shielding as shown by member M of Figure 7 this temperature gradient will be reduced to 275°F. This will produce a stress on the header of about 45,000 psi, and cycle life will be greater than the 50 cycle design requirement (Ref. 5).

With no thermal shielding, the tube to header boss and transition member will be exposed to a gradient of 280°F. By shielding, this gradient will be reduced to 185°F and a safe stress amplitude of about 30,000 psi. Thermal shields are recommended at the boiler inlet header and tube-to-header joints to insure structural integrity.

2) Variation in Boiler Tube Wall Thickness and Effect on Stress Level. The 3/4-inch OD x 0.040-inch wall thickness L-605 tube stock used has a 0.004-inch tolerance in wall thickness. Mechanically, this variation was investigated originally for collapsing pressure. The wall thickness variation has an effect on heat transfer and temperature drop through the tube. Using a

burn-out criterion of  $10^6$  Btu/hr-ft<sup>2</sup>, specified for design purposes (Ref. 5), the corresponding stress levels generated by the temperature gradient in the wall were solved for a 0.036 and 0.044-inch wall thickness. Thermal stress levels are proportionately greater for the 0.044-inch wall. Analysis has indicated that the thicker wall remains within safe stress limits.

3) Over Temperature and Pressurization Effects on the Test Section. Assuming a control malfunction or other such incident, a short term operating condition of 2000°F and 150 psi boiler shell temperature and pressure respectively, were investigated.

The short term yield strength for L-605 at 2000°F is approximately 12,000 psi (Ref. 7). As used before in these stress rupture analysis, a design factor of safety of 3 was used. This allowable design stress of 4,000 psi is significantly higher than the long term 1000 hour 1850°F rupture strength of 630 psi. Even with the 150 psi shell pressure assumption, the greater short term strength of L-605 at 2000°F more than offsets this over temperature, pressure condition. For this condition the all critical member wall thicknesses are at least a factor of two over designed based on this design stress. Structurally, the design criteria for the test boiler remains to be 1850°F rupture stress for 1000 hours.

4) High Temperature, Low Cycle Fatigue Design Consideration. No simple design criterion exists in determining the resistance of



metals to cyclic plastic strain when elevated temperatures are employed. However, a general equation (Ref. 8) relating the cyclic fatigue behavior from fracture ductility is presented in the following form:

$$N_{f_{fail}}^{\frac{1}{2}} \Delta \epsilon_p = C \quad (14)$$

where,  $\Delta \epsilon_p$  (Ref. 3) is the plastic strain range and  $C$  is a constant equal to  $\frac{1}{2}$  the fracture ductility,  $\epsilon_{f_{fail}}^* N_{f_{fail}}$  (Ref. 7) is cycles to failure.

It has been shown, recently, that it is possible under many conditions to convert equation (14) to a form more adaptable to elastic stress analysis. Here, the assumption is made that, despite the fact that the structure in question may undergo some plastic deformation due to thermal effects, elastic stress analysis techniques can be applied. Coffin (Ref. 8) presents the following equation for this case:

$$\sigma_a = \frac{E C}{2 N_{f_{fail}}^{\frac{1}{2}}} + \sigma_e \quad (15)$$

where,  $\sigma_a$  is the elastically computed stress,  $\sigma_e$  (Ref. 7) is the endurance limit or fatigue strength at  $10^7$  cycles and  $E$  (Ref. 7) is the modulus of elasticity at the corresponding temperature.

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\*The value used was based on a personal communication from the Haynes Stellite Company, Mr. Robert Dogus (Haynes Stellite Company) to Mr. R. Stankiewicz (General Electric Company), May, 1964.

The constant C may also be obtained by the following relationship:

$$C = 0.5 \ln \frac{100}{100 - \text{R.A.}} \quad (16)$$

where R.A. (Ref. 5) is the percent reduction in area at failure.

Critical structural members of the test section were analyzed using the above relationship. One of the most critical areas is the tube wall just outside the thermal shields at the potassium inlet. A maximum tube temperature gradient of 270°F is expected to exist in this area. Using the most pessimistic values presently available and solving for Equation (15) in terms of  $N_{\text{fail}}$  as estimated, low cycle fatigue failure of 70 cycles was determined. This is within the design requirements.

Status of Drawings, Procurement and Fabrication. Detail and assembly drawings, incorporating revised instrumentation, have been completed. The design has been completed and is awaiting approval. Approximately 95 percent of the raw L-605 material has been received.

### III. 100 KW PROJECT

J. A. Bond

The 100 KW facility is a single loop system used to study heat transfer to boiling alkali metals at temperatures up to 2200°F. The electrically heated boiling test section is a vertical section of 3/4-inch schedule 80, Cb-1%Zr pipe. Thermocouples are attached along the outer wall of the test section at intervals of approximately 2-inches. A preheater, located upstream of and in series with the test section, controls the boiler inlet subcooling. The working fluid is potassium.

#### Status of Loop and Test Section

Testing during the present reporting period has been according to the plan presented in Reference 5. Each series of data was taken at constant flow and pressure. Three flow rates and five pressure levels were tested. Tests were run at low flow rates in order to obtain data at qualities as high as possible within the limits of the heater capacity. However, system stability problems became more severe as the flow rate was decreased, especially at low pressure. Consequently, only one pressure level was tested at the lowest flow rate.

Boiling operation continued throughout April without a major shutdown. Although the W3%Re - W26%Re thermocouples have a significantly lower failure rate than the W - W26%Re couples, periodic shutdowns are still required to make minor thermocouple repairs.

The loop was shut down on May 1 upon completion of planned test runs and in preparation for the loop modification. A total of 103 stable boiling points were obtained during the present reporting period. The loop was operated a total of 433 hours above 800°F, increasing the total operating time to 3814 hours.

#### Status of Data Reduction

All data taken during the present reporting period have been reduced. All potassium liquid data taken to date in 1964 are presented in Appendix B, Table 3. The tabulated boiling data are presented in Appendix B, Table 6. The data are presented in six groups; three boiling and three liquid. Each set of data is preceded by a schematic sketch of the test section along with a key which describes the computer output. Liquid data of Na taken in November of 1962 will be reported in Quarterly Progress Report No. 9.

#### Status of Data Evaluation

Nucleate Boiling Results. Initial results of the current test series were presented in Reference 5. Those data were obtained at a constant flow rate of approximately 0.07 lb/sec. The nucleate boiling heat transfer coefficients obtained during the present reporting period are plotted as a function of quality in Figures 9-A and 9-B. The data of Figure 9-A are for a constant flow rate

of 0.046 lb/sec and Figure 9-B shows the data obtained at 0.036 lb/sec. The ranges of variables covered in these tests were:

Heat flux, Btu/hr-ft <sup>2</sup>	38,000 to 158,000
Exit quality, %	5 to 46
Test section exit temperature, °F	1665 to 1843
Mass velocity, lb/hr-ft <sup>2</sup>	42,000 to 85,000
Tube diameter (inches)	0.742

There was some indication in the data presented in Reference 5 that  $h$  increases with increased pressure in the higher pressure range. No such trend with pressure is evident from the data taken at 0.046 lb/sec (Figure 9-A).

Figures 10-A, 10-B and 10-C are plots of heat transfer coefficient as a function of quality at constant pressure. The parameter in these plots is flow rate. The data for  $W = 0.07$  lb/sec is from Reference 5. Figure 10-A shows a decrease in  $h$  with increasing flow rate. Figure 10-B, which includes data at a different pressure level, shows the same flow effect. In Figure 10-C, however, the effect of flow is not clear. Work is continuing in an attempt to correlate the nucleate boiling results obtained to date.

Condenser Performance. Potassium vapor generated in the test section of the 100 KW facility is condensed in a radiation-cooled condenser which consists of approximately 60 feet of coiled pipe. Due to heater limitations, the condenser is presently operating

far below its design capacity. Consequently, the vapor is condensed in the first few coils and the liquid is subcooled in the remaining coils. The effect of this subcooling is that a large percentage of the available test section power is required to raise the liquid temperature to the boiling point and the remaining power goes to vaporize the fluid. This point is shown in Figure 11 which consists of data presented in Reference 5. The ordinate of this plot is the fraction of the total power required to raise the liquid temperature to the boiling point. As can be seen, a large fraction of the total power input is being used to heat the subcooled liquid. As the total power input is increased, a larger fraction is available to vaporize the fluid. If the condenser were operating near its capacity, this fraction would approach zero and it would be possible to obtain data at higher quality.

#### IV. 50 KW PROJECT

S. G. Sawochka

The 50 KW facility is used to obtain condensing data for alkali metals. To obtain a wide range of condensing heat flux over a range of coolant temperatures, this two-loop system uses a sodium cooling loop. The test section is a vertical, annular configuration with potassium condensing inside a thick walled nickel tube and sodium coolant flowing in the annulus. Except for the test section of the facility, the potassium and sodium loops are constructed of Type 316 SS; therefore, loop operation is limited to 1600°F. This section, covering the 50 KW operation from April, 1964 through June, 1964 details the maintenance, modification and operating cycle of the facility.

##### Status of Loop and Test Section

A General Electric 4-pass conduction type pump was installed in the 50 KW facility on April 8, 1964. However, only intermittent operation, yielding no data, was logged during April. Problems were encountered with both the sodium standpipe and potassium boiler gas valves, and both valves were cut out and replaced with new SS 316 bellows seal valves. It was also necessary to cut out the bellows plug assembly of the 1½-inch Hoke vapor throttle valve

due to erratic operating characteristics with increasing difficulty of opening. This valve was capped until a new valve can be obtained.

On April 24 during pump down of the potassium loop prior to beginning operation, a leak in the test section was discovered. The leak was from the inside of the tube to the thermocouple hole nearest the inner diameter. The design wall thickness separating this thermocouple hole from the tube ID was 0.062-inch. However, at the point of failure a local decrease of this clearance to approximately 0.03-inch was detected during acceptance check. This was undoubtedly the cause of failure. Since it was not felt possible to repair this test section, completion of another test section on which a brazed seal had been unsuccessfully attempted was undertaken. Repair of this test section was successfully completed by metal arc welding as described in Section VII of this report. The test section was installed in the facility and instrumentation completed by June 1.

Initial attempts to obtain potassium and wall thermocouple calibrations using high temperature potassium vapor were unsuccessful due to large noise levels that were obtained for the potassium inlet well thermocouples. The noise level corresponded to approximately  $20^{\circ}\text{F}$  and thus made continuation of the calibration runs impossible. The noise level associated with the other test section thermocouples was approximately  $0.3^{\circ}\text{F}$  and as such, was



acceptable. The distinguishing characteristic of the potassium inlet well thermocouples was their exceptionally long (42-inch) length of immersion. It was not possible to substantially lower the noise levels of these thermocouples by variation of the connection of the thermocouple or its sheath to ground. For this reason a new potassium inlet thermocouple well with a 12-inch immersion length was constructed and installed in the facility on June 4, 1964.

Calibration runs were begun again on June 4, 1964 with no thermocouple noise problem encountered. Shortly after operation began, a failure of the General Electric conduction type pump in the potassium loop occurred. Due to this failure the facility was shut down to await delivery of the G. E. helical induction pump which was received on June 23.

To eliminate long periods of down time due to test section failures, and to provide both 5/8-inch ID and 3/8-inch ID test sections as required by current test plans, four new test sections have been designed and are currently in various stages of manufacture. These are:

- 1) A 5/8-inch ID test piece with five drilled 0.050-inch diameter thermocouple holes nine inches long at each end.
- 2) A 5/8-inch ID slotted test piece which will be sealed by brazing.

- 3) A 3/8-inch ID test piece with five drilled 0.050-inch diameter thermocouple holes nine inches long at each end.
- 4) A 3/8-inch ID slotted test piece which will be sealed by brazing.

Test sections numbers 1 and 2 (5/8-inch ID) are being manufactured concurrently. Number 1, which uses drilled thermocouple holes, is the preferred design since it should eliminate the majority of the mechanisms for failure that have been experienced with the alternate slotted thermocouple hole design (number 2). However, since preparation of number 1 requires accurate drilling of a number of long, small diameter holes and is an untried design in this respect, number 2, which is similar in design to previously fabricated test pieces, is being carried along as a back up to number 1. Test sections 3 and 4 are identical to 1 and 2, respectively, except for their diameter. These are in an earlier stage of manufacture, and again the slotted design, number 4, is a back up to the drilled design, number 3.

The necessary material for constructing a new test section shell has also been obtained. It is believed that the drilled version of the nickel test piece will eliminate the majority of the possible mechanisms for failure that were inherent in the initial test section design. It is also believed that the brazed version, although not as reliable as the drilled version, will be more reliable than the initial welded test piece. Installation of the new pump and test section is expected early in July with operation beginning in mid July.

## Status of Data Reduction and Evaluation

Liquid Data. After completion of the reduction and evaluation of the liquid data taken during October, 1963, efforts were directed towards evaluating the less reliable liquid data taken during April, July and August of 1963. This re-evaluation was carried out with the realization that large thermocouple errors, up to 20°F, were present during this period as discussed in Reference 2. All of the data that are being reported herein have been obtained with a 0.625-inch ID, 1.718-inch OD and 36-inch long Nickel 270 tube.

The liquid data of April, July and August of 1963 encompass the following range of parameters:

Reynolds number, $N_{Re}$	20,000 to 92,000
Peclet number, $N_{Pe}$	100 to 401
Prandtl number, $N_{Pr}$	.004 to .0049
Temperature, $T_K$ , °F	595 to 805
Potassium Nusselt Number	2.2 to 11.5
Net Power, KW	0.5 to 6.2

The raw data for the 14 liquid runs of April, 1963 have been reported in Reference 9. The Nusselt and Peclet number results for these data are presented in Table 2-A of this report. The data reduction procedure, although similar to that described in Reference 3, was carried out without a computer since substantial portions of the reduction routine had previously been completed. As can be seen from Table 2-A, the Nusselt number results scatter considerably more than those presented and discussed in References 3 and 5. This scatter is no doubt due to the large thermocouple errors that were present

during this series of tests. In fact, for run 5 of Table 2-A, the indicated sodium or coolant outlet temperature was greater than the potassium outlet temperature, thus making complete data reduction for this run impossible.

Since the reduction of the liquid data for the period from July 28 to August 1, 1963 had not been carried out, the data were key punched and reduced with a modified version of the current liquid data reduction program. The results of this reduction are presented in Table 2-B. As can be seen, the scatter of the Nusselt number results is great, as it was for the data presented in Table 2-A, evidencing the thermocouple errors present during the test period. Due to this scatter, no attempt at correlation of these preliminary results has been made.

Condensing Data. Liquid film Reynolds numbers, inadvertently omitted from the December condensing data of Reference 3, are presented in Table 3 with the previously reported values of the condensing ratio.

This completes the presentation of the condensing data taken during December, 1963 (References 3 and 5). The early condensing data taken during May, 1963 have been reconsidered even though large thermocouple errors were known to have been present at that time. The results of this re-evaluation are presented in detail in Appendix C and summarized in Table 4. The resulting values are shown in Figure 12 along with the other available potassium condensing data to allow comparison with previous results.

The results encompass the following range of parameters:

Potassium flow rate, lbs/sec	.00711 to .0085
Sodium flow rate, lbs/sec	0.5 to 1.28
Potassium condenser inlet temp., °F	1156 to 1185
Potassium condenser inlet pressure, psia	3.4 to 4.0
Potassium condensing heat transfer coefficient, Btu/hr-ft <sup>2</sup> °F	5,400 to 8,900
Condensing heat flux, Btu/hr-ft <sup>2</sup>	3.15 to 4.04(10 <sup>4</sup> )
Quality range, %	57 to 64
L/D	29
Nusselt condensing ratio, $\frac{h}{k} \left( \frac{\nu}{g} \right)^{1/3}$	0.015 to .025
Film Reynolds number, $\frac{4\tau}{\mu}$	600 to 900
Net Power, KW	6.6 to 7.8

From the above table it can be seen that although the data were taken at essentially constant temperature, 1156°F to 1185°F, the condensing ratio results vary by about  $\pm 25\%$ . This variation in the results was not unexpected due to the thermocouple errors known to be present. The results, in the form of Nusselt's condensing ratio and film Reynolds number, are presented in Figure 12 where they are compared to the data of December, 1963. The raw data for this set of runs, in the form of temperature and flow rates, were presented in Reference 9.

From Figure 12, the May results can be seen to be lower than predicted by analysis by about the same amount as the December results. These low values of the condensing ratio and the trend of the condensing heat transfer coefficient with vapor temperature

and density as presented in Reference 5, suggest the presence of a resistance to heat transfer in the vapor phase that has not been previously considered. From Figure 13, where the temperature profiles through the liquid film during the condensation of water and potassium are presented, it can easily be understood why this type of resistance would not have afforded an important heat transfer resistance during condensation of high Prandtl number fluids and therefore, would not have been detected. For the case of water with a condensing heat transfer coefficient of approximately 2500 Btu/hr-ft<sup>2</sup> °F, the temperature drop through the liquid film adhering to the wall would be 20°F at a heat flux of 50,000 Btu/hr-ft<sup>2</sup>. For the case of potassium, however, the temperature drop through the film would be approximately 2°F for a predicted heat transfer coefficient of 25,000 Btu/hr-ft<sup>2</sup> °F at the same heat flux. Thus the percentage temperature drop of interfacial resistance would be high in potassium but low in water due to the higher thermal conductivity of potassium.

Hypothesizing an interphase resistance between the gas core and the liquid film with an equivalent heat transfer coefficient of 25,000 Btu/hr-ft<sup>2</sup> °F would impose an additional 2°F temperature drop between the temperature of the gas core and the wall. For the case of water this additional drop would change the overall  $\Delta T$  only 10%. The presence of this type of interphase resistance would undoubtedly have gone unnoticed. However, for the case of potassium where this additional  $\Delta T$  would change the overall vapor to wall  $\Delta T$  by a factor of two, or from 2 to 4°F, this additional resistance can be detected. Since during the condensing process a condition of non-equilibrium mass transfer is known to exist at

the liquid-vapor interface, it is not unexpected that a temperature difference between the vapor and liquid at the interface also exists, as has been discussed in References 10 and 11.

## V. FACILITIES

J. C. Amos

### 300 KW Loop

Hot liquid metal flushing operations between 1200°F and 1800°F conducted at the end of the previous quarter and the beginning of this quarter did not eliminate the partial plugging conditions in the sodium system. The following inspection, cleaning and maintenance operations were performed, followed by 415 hours of successful test operation with full sodium flow and no indication of plugging.

- 1) The diffusion cold trap was removed and the contents sampled at the top, middle and bottom for metallics. The method of sampling precluded quantitative analysis for sodium oxide. However, the appearance of the material did not indicate that massive amounts of oxide were present. Analysis indicated minor amounts (1 - 10%) of Cobalt and Chromium and only traces of Columbium and Zirconium.
- 2) The sodium pump duct was removed, inspected and appeared clean.



- 3) The sodium stand pipe was removed and the level sensing device repaired. The gas and evacuation system to the sodium standpipe was modified to provide better drainage and minimize plugging in this area.
- 4) The 3.5-inch OD sodium inlet to the test boiler was opened and the top of the boiler tube visually inspected. No film was observed on the boiler tube at this end.
- 5) The sodium inlet to the EM flow meter was cut open and the flow meter tube inspected. This tube also appeared clean.
- 6) The sodium dump tank was removed, opened and the gettering material replaced. The tank had a substantial heel of sodium in the bottom which was sampled for metallics and was found to have minor amounts of Columbium (1 - 10%) and only traces of Zirconium. The Zirconium gettering material was very brittle. However, analysis indicated a maximum  $O_2$  content of 3390 parts per million indicating that the gettering material should not have been entirely used up. The dump tank was reinstalled and additional electrical heaters provided to allow gettering in the dump tank at higher temperatures.

- 7) A fresh charge of sodium was transferred to the dump tank and hot flushing operations were conducted in conjunction with calibration of the instrumentation and Wilson plot data runs. A maximum sodium flow rate of 21 lbs/sec at 1200°F was attained with no indication of plugging.

Following the above liquid operations, the sodium and potassium were returned to the dump tanks and hot trapped for approximately 48 hours. The loops were then refilled and boiling data runs initiated. After 201 hours of boiling test operation, a potassium leak occurred in a  $\frac{3}{8}$ -inch tube installed in the potassium inlet line to the boiler. This tube had been installed in August, 1963 as a thermal pressure transducer. It had not provided satisfactory pressure measurements and had not been in service since its initial installation. Both loops were immediately dumped; however, some instrumentation cables and connectors were damaged by a small fire resulting from the leak. Necessary loop and instrumentation repairs were completed in two weeks.

Following this repair, a boiler potassium side differential pressure transducer system described in detail in Section VI was installed and calibrated. Sampling and hot trapping of the sodium and potassium were performed and loop start up initiated. During the course of filling the potassium loop, the potassium dump valve failed to seat properly. Investigation disclosed that the L-605

valve bellows had failed. The valve was replaced with a 1-inch stainless steel Hoke valve. The loop was operating under boiling conditions to complete the 2-inch pitch helical insert test plan at the end of the quarter. A 5.5-inch pitch helical insert is available and will be installed in the test boiler upon completion of planned runs with the presently installed 2-inch pitch insert.

#### 100 KW Loop

On completion of the boiling test runs reported in Section III the loop was shut down and preparations started for modifications required to increase the operating range of this facility. Loop modifications include the following:

- 1) Addition of a 100-inch long  $3/4$ -inch schedule 80 coiled pipe preboiler with a tantalum sheet radiant heater located inside the coil.
- 2) Installation of a 30-inch long  $3/4$ -inch pipe test section with a 10-inch long straight inlet section for flow straightening. The test section heater is similar to the previous heater and is constructed of 27 tungsten rods, each 0.040-inches in diameter.
- 3) Installation of new heat shields of an improved design constructed of five layers of 0.005-inch thick tantalum sheets with corrugated tantalum spacers  $1/4$ -inch wide.

- 4) Installation of a new stainless steel dump tank and dump valve.
- 5) Installation of a new high temperature absolute pressure transducer up stream of the preboiler inlet orifice.
- 6) Removal of the Cb-1Zr potassium vapor throttling valve which had been installed between the test boiler and the condenser and was found to be unnecessary.
- 7) Installation of new tungsten 3% rhenium vs. tungsten 26% rhenium thermocouples.
- 8) Installation of thermocouple wells at the inlet and exit of the preboiler, and at the inlet and exit of the test section.

Status of the modification at the end of June, 1964 is as follows:

- 1) Fabrication and installation of the dump tank is complete.
- 2) Fabrication of the preboiler coil, heater, and heat shields are complete.
- 3) Fabrication of test section heater and heat shield is complete.

4) Machining of all Cb-1Zr loop parts is complete.

Work remaining to be done is as follows:

- 1) Welding, inspection, and heat treating of loop components.
- 2) Installation of the new section of loop in the vacuum chamber including field welding and heat treating.
- 3) Calibration of heat shield losses.
- 4) Installation of thermocouples and pressure transducer.
- 5) Connection of heaters and thermocouples.
- 6) Loop check out and shake down.

#### 50 KW Loop

The conduction type electromagnetic pump installed in the potassium loop in an effort to obtain condensing data while awaiting the delivery of the helical induction pump for this application failed during thermocouple calibration runs. The new helical pump was received June 23, 1964 and is currently being installed. Fabrication of a head tank to minimize the possibility of potassium pump cavitation was completed, and it is currently being installed in the loop.

A new nickel test section with drilled thermocouple holes is being fabricated. A back-up slotted test section was also machined and efforts to braze the thermocouple tubes and spacers in this tube are underway. It is planned to shake the loop down with the presently installed brazed test section early in the next quarter and replace this test section with the new drilled test section as soon as fabrication is complete.

## VI. INSTRUMENTATION

W. H. Bennethum

### 300 KW Loop

A significant emphasis on the acquisition of accurate pressure drop data across the test boiler secondary fluid (potassium) resulted in the design, manufacture and installation of a new differential pressure measuring system. This system is designed so that in-place calibration can be performed during the normal loop operation by isolating the transducer from the loop and simulating a measured differential pressure across the transducer by means of inert gas pressurization. It is designed to operate at any fixed temperature level between 250°F and 750°F. Figure 14 is a picture of the transducer and valve assembly prior to installation into the environmental chamber, which consists of a standard laboratory type furnace with an approximately 1 cubic foot interior volume. The system and its environmental chamber are located within the loop enclosure approximately 8 feet from the boiler, at approximately the middle level of the boiler. Connection between the valve assembly shown in Figure 14 and the loop was made with  $\frac{1}{2}$ -inch OD type 316 stainless steel tubing to within 18-inches of the loop connection. The last 18-inches were made of  $\frac{1}{2}$ -inch OD Haynes 25

Alloy tubing welded into the side of the absolute pressure sensor tap connecting tube. The connecting line from the boiler inlet will be full of liquid under all operating conditions. The connecting line to the boiler exit is sloped so that a liquid vapor interface will occur at a vertical level approximately 2-inches below the point where the connecting line is welded into the loop system. Both connecting lines are equipped with trace heaters and thermocouples to maintain temperatures high enough to avoid plugging.

The valves shown in Figure 14 make it possible to isolate the differential pressure transducer from the loop system and to apply zero pressure across the transducer by opening the by-pass valve or to apply a known differential pressure by keeping the by-pass valve closed and applying positive argon pressure through the gas calibration valve. These valves are all of the same type, rated at 1200°F with welded bellows stellite seats and positive plug return mechanism (no springs). The valves are actuated by extension handles drilled through the enclosure wall and through the front door of the furnace.

The differential pressure transducer is of the stressed diaphragm type consisting of an Inconel "X" corrugated diaphragm in an inconel housing. The diaphragm deflection caused by pressure difference is measured by means of a linear variable differential transformer.



This type of transducer is designed to operate continuously at 750°F. Present plans indicate that the pressure transducer and valve assembly will be maintained at approximately 500°F thereby minimizing creep problems normally associated with the transducer.

The external calibration apparatus associated with this measuring system consists of a 0.1% accurate Wallace and Tiernan dial manometer, an argon pressure supply and the necessary valves to control gas pressures and to vent the system. Attempts will be made to keep alkali metal out of the calibration system.

Initial attempts to calibrate the differential pressure measuring system have indicated a number of problems, most of which were caused by the electronic network necessary to excite and demodulate the LVDT signal. There has been an indication of excessive zero shift and a relatively large degree of scatter in the data. Part of the problem associated with the electronic circuit is caused by relatively large carrier leakage into the output signal. Attempts to reduce this have been partially successful. Further work in improving the stability characteristics of the readout system will be made. The net change in signal level for a 50 psi differential pressure across the transducer is approximately 44 millivolts in the present configuration.

Attempts to use the two 0 to 150 psia Taylor gages (at boiler inlet and exit) to measure pressure drop through the secondary fluid

boiler tube have been hampered by the relatively large zero shift and hysteresis indicated during the calibration of these instruments. Since there is no way to perform calibrations on the Taylor gages during actual loop operation, pressure data calibration must be obtained from before and after test measurements. The relatively large change in these calibrations makes interpretation of the results difficult. Both of the absolute gages are operated at fixed temperature levels during calibration and loop operation.

A 6-inch pitch helical insert for the 300 KW boiler was fabricated during the past quarter. This insert is identical to the 2-inch pitch insert except for the thermocouple junction locations and the pitch of the swirl device. A sketch of this insert with thermocouple locations is shown in Figure 15. Dimension "C", Figure 15 is the distance from the thermocouple junction to the reference plane on the underside of the boiler support flange (reference Plane B of Figure 15). The 2-inch pitch helical insert of this same basic design has several weeks of high temperature operating time behind it with no sign of any problem in either thermocouple performance or structural integrity.

In-place liquid-liquid calibration of the boiler shell thermocouples (55 total located in 11 rings of five each) indicated that all thermocouples were reading significantly low. Attempts to determine the cause for this condition were not successful. A subsequent freezing point calibration was conducted on two thermocouples made from the same batch of wire (not previously subjected to high temperature) used to make the boiler shell couples (platinum

10% rhodium-platinum alloy, alumina insulation, 0.062-inch OD Haynes No. 25 alloy sheath). The results showed that the deviation from standard for this unused wire was approximately the same as that indicated by the in-loop calibration of the installed wall thermocouples. This deviation from standard is difficult to explain, since a previous standard homogeneity test (subjecting the wire to a sharp gradient of approximately 1500°F with an acetylene torch) had showed no indication of inhomogeneity in the wire across its length.

Other than the homogeneity test, no preliminary check had been run on the wire output level prior to installation of the couples on the test boiler due to the fact that this type of calibration does not take into consideration the many variables associated with using the wire on an operating loop. The in-place calibration run which is always done before test data is obtained by operating the boiler in a liquid state with very small temperature changes over its length (i.e., at almost adiabatic conditions) at two flow rates represents an excellent in-place calibration based on the inlet and exit well thermocouples as temperature standards.

An attempt was made to define the consistency and drift characteristics of the thermocouples used on the boiler shell. The data obtained with the test boiler thermocouples can be used if it can be proven that the deviation from the standard calibration is repeatable for the periods of time these thermocouples were subjected to temperature during heat transfer tests. A preliminary check of the

data obtained from an in-loop calibration of the shell thermocouples done at the end of the test period for the 2-inch pitch insert indicate in comparison with the original in-loop calibration that the drift of the thermocouples over the test period was small, of the order of about 5°F.

#### 100 KW Loop

Two pressure gages of the slack diaphragm type have been ordered for the modified loop system. These gages are of the absolute type with type -316 stainless steel diaphragm housings mounted at the loop piping system with NaK filled capillary tubing extending from the diaphragm housing through a high vacuum flange to a bourdon tube located outside the vacuum chamber enclosure. The gage is connected to the loop by an approximately 8-inch long pipe. Since the fluid in this connecting pipe will be nearly stagnant and since the gage itself will be at maximum temperature levels estimated to be less than 800°F, no mass transfer problem due to the use of stainless steel is anticipated. This configuration eliminates a need for mounting the bourdon spring deflection or force measuring apparatus inside the vacuum-chamber. It is necessary to weld the capillary tube into the vacuum flange before the capillary is filled with NaK.

These pressure gages were chosen because of their long term stability rating. The inaccessibility of the loop system during operation and the difficulties in performing frequent in-place calibration make good long term stability characteristics of the pressure gages necessary.

A liquid level probe of the resistance type ("J" configuration) was fabricated as part of the modified system dump tank. This type of probe has the sensitivity of approximately 0.5 millivolts per inch change in level per ampere of current through the sheath. It gives a relative indication of level which is linear between any two calibration points. Initial calibration should be conducted by taking readings at two conditions of known level in the tank. It is then possible to calculate any other level in the tank with the output readings from the liquid level probe. The probe is designed so that it is not sensitive to temperature of the tank or fluid so long as there is no temperature gradient across the probe cross section. This temperature compensation is achieved by operating the probe in a bridge circuit so that proportional resistance changes caused by differences in operating temperature compensate each other.

An additional calibration on a spool of tungsten 26% rhenium wire from the same lot used to instrument the loop during the January - February, 1964 shutdown was conducted in an argon atmosphere by making a junction between the new spool wire and the original wire. The maximum output over the entire temperature range of calibration (70 to 2200°F) was approximately 10 microvolts, indicating that there is essentially no difference between the two spools of wire. This result was expected since both spools were from the same batch of wire and were made at the same time. However, this calibration was thought to be necessary due to the possibility of inhomogeneity along the length of wire.

### 50 KW Loop

The test section presently installed in the loop was reinstrumented with a new batch of chromel-alumel thermocouples (Inconel 702 sheath, magnesia insulation). All of these couples were run directly to an ice bath located immediately outside the loop enclosure. Hot junctions were all of the capped grounded type. It was necessary to relocate the two potassium inlet well thermocouples due to the high noise level which was a function of pump power setting. The well was relocated so that its length of immersion in the liquid metal pipe was reduced from approximately 40-inches to 10-inches. This change in length reduced the apparent noise level from over 100 microvolts to less than 10 microvolts. No other changes were made in thermocouple locations.

## VII. MATERIALS SUPPORT

W. R. Young

### 300 KW Loop

Loop Maintenance. The 300 KW loop was reconditioned as described in Section V of this report. The Materials and Processes group supported this activity by rewelding of loop components and providing alkali metal monitoring and control. In addition, the getter materials recovered from the primary (sodium) loop dump tank were analyzed for oxygen content. A maximum oxygen content of 3390 parts per million indicated the gettering materials were not completely saturated.

The failure of an unused thermal pressure sensor was repaired, using a solid plug to seal the opening. The thermal pressure sensor has been submitted for metallographic examination to determine the cause of failure. A second failure occurred in the dump line valve in the secondary (potassium) loop. This L-605 alloy valve was replaced with a Type 316 stainless steel valve. It is anticipated that longer bellows life will be obtained by substituting for the L-605 alloy bellows a 316 stainless steel bellow, since the L-605 bellows is subject to embrittlement during operation. The L-605 alloy bellows is currently being removed from the valve and will be examined metallographically.

Single Tube Test Section. A second helical insert was fabricated with a 5.5-inch pitch for the next 300 KW test series. The fabrication was equivalent to that employed with the 2-inch pitch insert currently being tested (Ref. 5). Seven Inconel 702 sheathed thermocouples were brazed into an L-605 alloy end cap. The thermocouples were then inserted through the 0.25-inch diameter inner tube of the helix and the end plug welded in place.

Multi-Tube Boiler. The fabrication of a multi-tube boiler utilizing L-605 alloy requires resolution of two potential problem areas. Since it is desirable to keep the boiler tube wall thickness to a minimum, the forming characteristics of such tubing must be determined to aid in design considerations. Also, the most suitable method for production of the critical tube-to-header welds must be determined. Since L-605 alloy is known to embrittle due to aging at service temperatures, the elimination of notch effects in tube-to-header welds is considered mandatory. The materials support activity in these two areas is described below.

Inspection of a 1.0-inch outside diameter, 0.040-inch wall thickness, L-605 alloy tube, which was formed into a coil having a 3.875 inch centerline radius bend, revealed severe rippling of the tube wall along the inside bend radius. This unacceptable condition could be reduced in the 0.75-inch outside diameter tubing to be used in construction of the multi-tube boiler. However, additional trial tube forming operations were indicated.



An acceptable minimum bend radius for 0.75-inch outside diameter, 0.040-inch wall thickness, L-605 tube was therefore determined by a subsequent forming trial. Excellent quality was obtained on a 90° bend with a 2.5-inch centerline radius. No defects were apparent visually. A dimensional and metallographic inspection will be made to determine the extent and uniformity of wall reduction.

A study of the literature on tube-to-header welds documented three potential manufacturing processes which eliminate notch effects in this type of weld. Briefly, these methods involve conventional edge welding followed by back-brazing, conventional forming and edge welding followed by diffusion bonding of a suitable intermediate metal between the tube and header, and full penetration tube-to-tube welding produced with the welding torch inserted inside the tube to overcome space limitations. In the latter case, tube projections are machined integrally with the header to provide equivalent tube thicknesses for subsequent welding operations.

Although the welding method employed for tube-to-header joints cannot be selected until evaluation of trial joints has been undertaken, the welding method employing full penetration tube-to-tube joints appears most promising. In addition to elimination of notch effects without post-weld operations, the method also allows full radiographic inspection, an important attribute for alkali metal

containment. Vendor contacts have indicated the feasibility of this process.

Evaluation of Mo-0.5Ti Alloy Tube. The results of previous investigations on the 1.12-inch outside diameter x 0.915-inch inside diameter x 6-foot long Mo-0.5Ti alloy boiler tube were reported in the last quarterly report (Ref. 5). The inside of the tube was exposed to boiling potassium and the outside to sodium in the heater circuit of the L-605 system for 25 hours at 1850°C and 100 hours at temperatures in excess of 1500°F since the last inspection. Metallic mass transfer layers, approximately 0.5 mil in thickness, on the surface of the sodium side of the boiler tube were analyzed spectrographically and found to contain 10-100% Co and 1-10% Cr, Ni and Fe.

In order to obtain the concentration gradients in the deposited layers, a metallographic specimen was submitted to the Nuclear Materials and Propulsion Operation, General Electric, for electron beam microprobe analysis. Figure 16 shows two metallographic views of the surface layers. The region shown in Figure 16(b) was the area across which the electron beam traverse was made. The actual thickness (0.5 mil) of the surface layers is shown in Figure 16(a). The concentration gradients across the four distinct surface layers are given in Figure 17. The profile scans are semi-quantitative due to absorption and fluorescence effects;

however, it may be noted that Cr and Ni are the principle alloying constituents in the surface layers. The nominal composition of L-605 alloy (50Co-20Cr-15W-10Ni-3Fe) and the composition of the surface layers given in Figure 17 indicate that Cr and Ni are either preferentially leached from the L-605 or that they preferentially alloy with the Mo-0.5Ti tube. The brittle nature of the mass transfer layers is illustrated by the cracks shown in Figure 16, and spalling of layers of this type in a system subjected to a number of thermal or mechanical shocks could contribute to plugging of test systems.

#### 100 KW Loop

The modification of the 100 KW loop for increased power input is proceeding. A new boiler and flow meter section is being fabricated that will extend from the EM pump outlet to the top of the condenser. The welded design was finalized and all the parts were machined for assembly. Welding of the components in the vacuum purge welding chamber was initiated. The entire section will be welded in the chamber and joined to the loop using two field welds.

A new stainless steel dump tank of large capacity and its associated valving was fabricated. A bimetallic brazed joint of Cb-1Zr to Type 316 stainless steel pipe was prepared and field welded to the 3/4-inch schedule 80 Cb-1Zr pipe dump line. The new dump tank was then installed in place.

## 50 KW Loop

The nickel test section which was used to obtain the 1963 condensing data, failed by penetration of potassium into a thermocouple well on April 24, 1964 during pump down of the potassium loop prior to beginning operation. This test piece was sectioned for metallographic evaluation. Preliminary results indicate that erosion of the nickel occurred at the thermocouple hole nearest the inner diameter. The nickel wall separating the thermocouple hole from the tube inside diameter was eroded along approximately a 0.5-inch length starting 0.375-inch below the brazed joint on the potassium inlet (top) of the test section. Further evaluation of this failure is in progress.

An attempt to repair the other nickel test section was successful. Since brazing did not provide a satisfactory seal, the thermocouple grooves were re-slotted and sealed by welding. This test section was assembled and installed in the 50 KW facility following accepted welding procedures and is ready for test.

Four back-up test sections have also been ordered, two having a 5/8-inch inside diameter and two having a 3/8-inch inside diameter. One test section of each size is being processed with drilled 0.050-inch diameter thermocouple wells and will require only the brazed joints between the test section and loop piping to complete the fabrication. The 5/8-inch inside diameter test section is scheduled for delivery early in the next report period.

The other two test sections will be fabricated, using a brazing approach similar to that employed previously. It is anticipated that the availability of a new vacuum furnace at the Evendale plant will eliminate the cleanliness problems encountered during previous brazing operations. Both test sections have been received. The 5/8-inch inside diameter test section was assembled and the brazing alloy applied. Results on the vacuum brazing of this test section will be available during the next report period.

#### Alkali Metal Technology

A spectographic analysis on a residue from a section of L-605 pipe from the 300 KW primary loop pump inlet, submitted for analysis on March 16, 1964, i.e., prior to loop conditioning, indicated that the major constituents were sodium and columbium, and that the minor constituents were cobalt, nickel and chromium. A method for removing such residues is being investigated.

Initial examination indicated that the residue was only partially soluble in hydrochloric or nitric acid. It was suspected that the residue was a sodium columbate. It is known that a potassium columbate,  $4K_2O \cdot 3Cb_2O_5 \cdot 16H_2O$ , is soluble in water, whereas a similar water soluble sodium columbate is not known. An attempt to convert the sodium compound to the potassium compound was, therefore, in order. Consequently, aqueous potassium hydroxide was tried as a solvent and also in combination with other ions that form soluble complexes with columbium.

A hot, 20%, aqueous, potassium hydroxide solution dissolved the material with only a small, dark residue (probably oxides of chromium, nickel and cobalt) remaining. A hot solution of potassium hydroxide with oxalate added also dissolved the main part of the residue, but somewhat more rapidly. In contrast, additions of potassium fluoride, potassium tartrate, potassium citrate or the disodium salt of ethylenediamine tetra-acetic acid to potassium hydroxide solution did not help to dissolve the residue.

Hot solutions of potassium hydroxide, with or without oxalate, do not attack L-605. They can be removed by rinsing with water, then with dilute hydrochloric acid, and finally again with water.

## VIII. ANALYSIS

G. L. Converse

### The Prediction of Two-Phase Friction Pressure Drop for Potassium

The literature of two-phase flow is replete with both theoretical and semi-empirical methods of predicting the frictional component of two-phase pressure drop. No attempt will be made here to provide a summary of the various methods or to attempt an assessment of their relative merits. What has been done is to select, from the many available methods, two for further consideration. The first method selected is one due largely to the work of R. C. Martinelli (Ref. 12 through 15). It has been selected because of its wide spread use. The second method selected will be referred to as the homogeneous method since it utilizes a quality weighted mixture viscosity and density.\* This method was selected because of its inherent simplicity.

The above two methods will serve as preliminary standards with which to compare the experimental determined pressure drops. As more precise experimental data become available, it may be necessary to consider other prediction schemes and/or modifications to the above methods.

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\*See for example, "Two-Phase Pressure Drops," H. S. Isbin, R. H. Moen, D. R. Mosher, AECU-2994, November, 1954.

The Method of Martinelli. A preliminary estimate of the pressure gradient due to friction in two-phase potassium flow can be obtained by extending the method of Martinelli. This method relates the two-phase frictional pressure gradient to that for the all liquid flow. The resulting curves for the flow of a steam-water mixture in a smooth pipe where the flow regime is of the turbulent-turbulent type\* are given in Reference 14. These curves (Ref. 14) were used to determine the local two-phase frictional pressure gradient for potassium. The predicted values for potassium are shown in Figure 18.

The curves of Figure 18 were then numerically integrated for the particular case of a linear variation of quality with length to obtain the overall ratio of two-phase pressure drop to all-liquid pressure drop for a heated duct. The resulting curves are shown in Figure 19.

The Homogeneous Method. The homogeneous method chosen utilizes a quality weighted mixture density and viscosity to obtain two-phase pressure drop, i.e.,

$$\frac{1}{\rho_h} = \frac{1-x}{\rho_f} + \frac{x}{\rho_g} \quad (1)$$

$$\frac{1}{\mu_h} = \frac{1-x}{\mu_f} + \frac{x}{\mu_g} \quad (2)$$

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\*A detailed discussion of the various flow regimes is given in Reference 15.



The two-phase pressure drop is calculated from the usual Fanning or Darcy-Weisbach single phase equation. For turbulent flow in a hydraulically smooth pipe ( $f = c/(N_{Re})^n$ ) the resulting expression for the pressure gradient ratio is:

$$\frac{dP/dL_{TPF}}{dP/dL_0} = \frac{(1-x) + x \rho_f/\rho_g}{[(1-x) + x \mu_f/\mu_g]^n} \quad (3)$$

The calculated values of Equation 3 (for turbulent flow with  $n = 1/4$ ) are compared with those obtained by the Martinelli method in Figure 18. Although the trend and order of magnitude of the pressure gradient ratio predicted by the two methods are the same; the values predicted by the homogeneous method fall consistently below those obtained by the Martinelli method.

Equation 3 was integrated for the case of a linear variation of quality with length in order to obtain the overall ratio of two-phase pressure drop to all-liquid pressure drop for a heated duct. The resulting curves are shown in Figure 20.

#### Comparison of Predicted and Measured Values

The pressure drop data currently available from the several loops in operation at the Space Power and Propulsion Section of the General Electric Company must be regarded as tentative. The two loops which have provided pressure drop data are the 50 KW loop and the 300 KW loop. Some of the data from these loops is discussed below.

50 KW Loop. In the 50 KW loop, potassium vapor at essentially 100% quality enter a vertical once through condenser and departs a zero quality. The information available is the temperature at inlet and exit. The inlet thermocouple is located at about 16 L/D upstream of the condensing section and the exit thermocouple is located about the same distance downstream of the condensing section. The pressure drop data (the inlet and exit pressures are assumed to be the saturation pressures corresponding to the measured temperatures) for the 50 KW loop was presented in Reference 5 (Figure 24) in the form of a plot of pressure drop vs.  $G^2/2g_c\rho_g$ . These values can be used to determine the ratio of the overall two-phase friction pressure drop to the all-liquid pressure drop by making suitable corrections for the momentum and elevation components of the two-phase pressure drop. The results of this calculation are shown in Figure 21. The data encompass the following range of variables:

Inlet Reynolds number ( 100% quality)	6,715 to 5,824
Exit Reynolds number (all liquid)	807 to 747
Inlet pressure (psia)	3.7 to 6.4
Inlet temperature (°F)	1,169 to 1,258
Quality at which the vapor Reynolds number is equal to 2000	28% to 34.3%

The Martinelli flow regime is of the laminar liquid-turbulent vapor type to about 30% quality, below which the flow passes through a transition region finally becoming fully laminar (laminar liquid-laminar vapor) at about 15% quality. The integrated Martinelli multipliers shown in Figure 19 are for a turbulent liquid-turbulent vapor regime and, as shown in Figure 21, are somewhat higher than the experimental values. This was to be expected since the multipliers for the liquid turbulent-vapor turbulent regime are higher than those for the other flow regimes (Ref. 15). Also shown in Figure 21 are the integrated homogeneous multipliers for both laminar and turbulent flow. Since the homogeneous Reynolds number varies from about 6,000 at inlet to 800 at exit, the data fall in the transition region between laminar and turbulent flow.

300 KW Loop. In Reference 9 the two-phase pressure drop in an adiabatic section was correlated against the single phase vapor pressure drop by an equation of the form,

$$\frac{\Delta P_{TPF}}{\Delta P_g} = 3.0 \quad (4)$$

The data appeared to correlate reasonably well over the following range of variables:

Flow Rate, lb/sec.	0.06 to 0.25
Quality, %	10 to 87
Temperature, °R	1960 to 2235
Pressure (psia)	25 to 80

If it is assumed that Equation 4 holds on a local basis, then the local pressure gradient ratio based on all liquid flow can be obtained as follows:

$$\frac{dP}{dL})_{TPF} = 3 \left[ 4 \frac{f_g}{D} \frac{\rho_g V_g^2}{2g_c} \right] \quad (5)$$

$$\frac{\frac{dP}{dL})_{TPF}}{\frac{dP}{dL})_0} = 3 x^{2-n} \frac{\rho_f}{\rho_g} \left( \frac{\mu_g}{\mu_f} \right)^n \quad (6)$$

where,

$$f = \frac{c}{N_{Re}}^n$$

For  $n = 1/4$  (hydraulically smooth pipe in turbulent flow) the values predicted by Equation 6 can be compared directly with those obtained from the Martinelli method. This comparison is shown in Figure 22 for an average pressure of 45 psia. It can be seen that the experimental values fall below the prediction at low qualities and above the prediction at high qualities. Also shown in Figure 22 are some recent results for steam-water mixtures obtained by Janssen (Ref. 16). The similarity between the water and potassium results is striking.

## IX. POOL BOILING HEAT TRANSFER INVESTIGATION

C. F. Bonilla

Information on pool boiling can be of considerable value in advancing the basic understanding of boiling heat transfer. This program includes the determination of both the heat transfer coefficients and the critical heat flux for potassium in pool boiling. The program is being carried out at Columbia University. A schematic of the pool boiling apparatus is shown in Figure 23.

### Status of the Test Facility

During final assembly of the pool boiling apparatus, evidences of the existence of a leak in the heater chamber became apparent. Difficulty in locating the source of the leak made it necessary to carry out the heat loss determinations, reported in Reference 5, with a slight positive pressure of argon in the heater chamber.

A more thorough investigation localized the leak source at or near two 0.187-inch diameter tantalum rods used to carry power to the sprayed molybdenum heater. Subsequent examination of these tantalum rods revealed a Y-shaped defect in the center of both bars and apparently extending the full length of the bars.

A metallographic examination of a cross-sectional sample of each tantalum bar showed a typical center-burst crack (Figure 24). This type of defect can occur when improper conversion techniques are employed in producing the mill product (i.e., tantalum bars).

The defective tantalum rods were cut off just inside of the bellows seal and copper rods were joined to the remaining Ta stubs. The apparatus now shows a very low leak rate and will be put into full operation within the next few weeks.

#### Test Conducted During the Current Quarterly Period

The effort during the current quarterly period was directed primarily toward the determination of the overall heat losses for the pool boiler. Maximum boiling heat flux sought with the present equipment is 500,000 Btu/hr-ft<sup>2</sup>. Heat losses as reported previously (Reference 5) were as high as 25,000 Btu/hr-ft<sup>2</sup>, when based on the boiling area, or 5% of maximum boiling heat flux. At lower boiling heat fluxes, the percentage loss would be greater, thus increasing the possibility of a yet larger percent error in the boiling heat flux. In order to minimize the heat losses and increase the accuracy of the boiling data, two more layers of insulation have been added to the apparatus. Thermocouples have also been attached to the apparatus below the heater plate. Consequently, heat loss below the heater plate can also be calculated from Equation (1);

$$(q/A)_{\text{bott}} = (q/A)_{\text{elect}} \frac{\sum \left( \frac{k_{\text{av}} \Delta T}{X} \Delta S_{\text{bottom}} \right)}{\sum \left( \frac{k_{\text{av}} \Delta T}{X} \Delta S_{\text{total}} \right)} \quad (1)$$

as well as previously reported (Equation 2 of Reference 5), where

each  $\Delta S$  is a portion of the thermally insulated outer surface having a thickness (or number of layers) of thermal insulation equal to  $X$  and a temperature differential of  $\Delta T$ ;  $k_{ag}$  is the average thermal conductivity of the insulation over the average temperature range of  $\Delta S$ .

#### Data Evaluation

The raw data on potassium pool boiling from a horizontal nickel plate in the first apparatus were presented in Reference 17. Final values, corrected for heat losses and heat conduction up the walls of the boiling chamber, were presented in Reference 18.

The data presented in References 17 and 18 showed a large effect of boiling pressure, which was not studied further at that time. In Reference 19 a discussion is presented which shows that this order of magnitude of the effect would be expected, from the results of other investigations (Ref. 19). In addition, it was shown by an approximate analysis that  $\Delta T$  at a constant  $q/A$  varied roughly as the  $-0.3$  power of absolute pressure, in agreement with the exponent of  $-0.3$  previously reported for mercury in the same geometry (Ref. 20). The following equation was obtained by passing straight parallel lines through the points in two pressure groups, merely by eye:

$$\Delta T = 41.5 (q/A)^{0.115} P^{-0.293} \quad (2)$$

In this equation  $\Delta T$  is in  $^{\circ}F$ ,  $q/A$  in  $Btu/hr-ft^2$ , and  $P$  in millimeters of mercury absolute (torrs), was taken roughly as 1200 and 5 mm for the two groups.

Subsequently, the final data of the University of Michigan project have become available on a limited basis (Ref. 21). Their results were obtained with a horizontal cylinder, and showed a great deal of spread, in part due to a consistent variation, or hysteresis, between points obtained with successively increasing heat flux and those obtained with decreasing heat flux. It may be mentioned that similar results were obtained in the boiling of helium by Reeber (Ref. 22), and reasonably explained as due to the superheat hysteresis required to initiate a train of bubbles at a previously unused nucleus, compared to a lesser superheat to continue the bubbling from a used nucleus as the heat flux is decreased.

In any case, it was decided to carry out a more complete least squares analysis of the previous experimental data, and fit them with a curve including pressure of each point, rather than considering the points in two groups at an average pressure for each, as previously done. Point No. A.1 (Ref. 18), which clearly seems to be natural convection or incomplete boiling and B.1 at the lowest heat flux and possibly not boiling, were eliminated. The calculation was done at the Columbia University Computing Center on the 7094 IBM Computer, and was a multiple linear correlation of  $\log \Delta T$  against  $\log q/A$  and  $\log P$ . For the twenty-six points indicated above (Ref. 18), the following equation was obtained:

$$\Delta T = 49.8 \left(\frac{q}{A}\right)^{0.0867} P^{-0.276} \quad (3)$$



The standard error of the estimate of the natural log of  $\Delta T$  is 0.1465, corresponding to a standard error of  $\pm 15\%$ . The standard error of the exponent of  $P$  was 0.01378, and of the exponent of  $q/A$  was 0.0576.

Evidently there is good internal agreement in the data of Reference 18 as to the effect of pressure on pool boiling heat transfer coefficients, and additionally good agreement with the previous available results from mercury, obtained also at a horizontal plate (Ref. 19). The data of Reference 18 are listed in chronological order, and it can be seen that they are continually increasing in heat flux during runs at a given constant pressure. The runs (A.3, 5, and 7) in which the pressure was increased at constant power (Ref. 18), may very well be comparable to runs at increasing power, since the application of pressure instantaneously decreases the boiling rate, which later increases as the new steady condition is approached. Thus, the present runs on potassium may be considered to be entirely of the increasing flux category. However, the mercury boiling runs (Ref. 19) were equally at increasing and decreasing fluxes, and showed excellent agreement among the two modes of operation\*. Accordingly, it seems likely that in boiling on a horizontal plate there is no appreciable effect of increasing versus decreasing heat flux as contrasted with horizontal cylinder or vertical plate results.

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\*Stalder, A., personal communication.

It would seem likely that boiling in a vertical tube, as in most current industrial boiling loops, would show substantial effect of increasing versus decreasing heat flux, and also increasing or decreasing level of initial boiling. However, this would not necessarily be similar to the effect obtained with a horizontal cylinder, due to its change in angle from bottom to top around the periphery. In the high-flux apparatus shown in Figure 23 and now being readied for operation, the effect of heat flux history will be investigated by operating with both increasing and decreasing heat flux, as well as heat fluxes which are being changed in a random fashion. In addition, operation will be carried out with the boiling plate at various angles to the horizontal, as can be obtained, in order to determine whether the increasing versus decreasing flux mode shows any difference, and whether this can be extrapolated to vertical walls. The technique of a liquid metal thermocouple, giving a good average temperature over the boiling surface, which is to be used in the high flux pool boiling apparatus, would seem to be advantageous to determine the effect of increasing versus decreasing flux, and will be used.

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TABLE 1. TWO-PHASE FRICTIONAL PRESSURE DROP MULTIPLIERS FOR POTASSIUM BOILING  
IN A VERTICAL 1.0-INCH MOLYBDENUM TUBE WITH 2-INCH PITCH HELICAL INSERT

Date	Time	BOP	x	( $\Delta P$ ) <sub>m</sub> (psi)	( $\Delta P$ ) <sub>lh</sub> (psi)	( $\Delta P$ ) <sub>mom</sub> (psi)	( $\Delta P$ ) <sub>LP</sub> (psi)	$\left(\frac{\Delta P_{TP}}{\Delta P_{OE}}\right)$	$\left(\frac{\Delta P_{TP}}{\Delta P_{OP}}\right)$
9/2/63	1300	43.8	0.388	9.65	0.57	0.56	0.0567	150	120
9/2/63	1400	42.3	0.355	9.49	0.57	0.51	0.0565	149	88
9/2/63	1500	40.3	0.326	9.70	0.57	0.48	0.0564	154	84
9/2/63	1800	30.9	0.309	9.44	0.57	0.46	0.0576	146	96
9/2/63	1900	27.8	0.304	9.31	0.58	0.77	0.0589	135	100
9/2/63	2030	24.2	0.249	9.10	0.58	0.66	0.0614	128	90
9/2/63	0800	56.7	0.405	10.13	0.56	0.45	0.0605	151	80
9/2/63	0900	53.8	0.418	9.96	0.56	0.45	0.0589	152	90
9/2/63	2100	22.9	0.233	8.92	0.58	0.68	0.0652	118	80
9/2/63	2200	18.7	0.211	9.13	0.58	0.77	0.0751	104	85
9/3/63	1100	40.3	0.364	12.23	0.57	1.09	0.1009	105	94
9/3/63	1330	31.5	0.339	11.52	0.57	1.05	0.1030	96	110
9/3/63	1730	18.5	0.203	11.23	0.58	1.82	0.1547	57	78
9/3/63	2000	21.0	0.286	10.47	0.58	1.38	0.1064	80	115
9/4/63	0300	32.7	0.369	10.83	0.57	1.06	0.0978	94	114
9/4/63	0330	34.2	0.350	10.60	0.57	1.09	0.1037	86	104
9/4/63	0430	36.6	0.442	10.64	0.57	1.20	0.0939	94	130
9/4/63	0600	41.7	0.440	10.84	0.57	1.25	0.0970	93	118
9/4/63	0630	43.7	0.432	11.40	0.57	1.35	0.1056	90	110
9/4/63	0700	45.6	0.455	11.15	0.57	1.31	0.0969	96	110
9/4/63	0730	48.5	0.478	11.20	0.57	1.27	0.0918	102	111
9/4/63	0800	51.0	0.494	11.34	0.56	0.93	0.0922	107	110
9/4/63	0830	53.2	0.524	11.44	0.56	0.93	0.0864	115	116
9/4/63	0900	54.2	0.539	11.45	0.56	0.90	0.0824	121	118
9/4/63	0930	55.4	0.557	12.01	0.56	0.93	0.0915	115	117
9/4/63	1000	57.8	0.578	11.64	0.56	0.94	0.0805	126	120
9/4/63	1100	62.8	0.597	11.94	0.46	1.01	0.0834	124	113

TABLE 2-A. LIQUID POTASSIUM HEAT TRANSFER RESULTS  
FROM THE 50 KW FACILITY

Run. No.	Date	T <sub>K</sub> (°F)	T <sub>Na</sub> (°F)	W <sub>K</sub> (lb <sub>m</sub> /hr)	W <sub>Na</sub> (lb <sub>m</sub> /hr)	Q (KW)	U (Btu/hr-ft <sup>2</sup> °F)	N <sub>NuK</sub>	N <sub>PeK</sub>	N <sub>PeNa</sub>
1	4/10/63	611	603	1767	2407	1.1	873	5.56	328	63
2	4/10/63	608	601	1571	2890	1.1	940	5.50	292	75
3	4/10/63	603	597	1314	3297	1.1	1055	5.18	244	86
4	4/10/63	602	599	1000	3779	1.3	1439	4.18	186	98
5	4/10/63			910	4259				169	111
6	4/10/63	607	605	1775	4263	0.28	814	5.08	330	111
7	4/11/63	614	609	1445	3745	1.0	1145	7.82	268	98
8	4/11/63	609	605	1336	3325	0.71	994	5.58	248	86
9	4/11/63	602	598	1084	2790	0.75	908	3.53	201	73
10	4/11/63	608	607	922	2420	0.54	1180	3.61	171	63
11	4/15/63	805	792	1512	2390	1.4	625	4.50	297	66
12	4/15/63	801	788	1094	2465	1.4	618	3.68	215	68
13	4/15/63	800	788	1081	3496	1.4	625	3.80	212	96
14	4/15/63	796	788	601	4120	1.1	604	2.90	118	113

The raw data corresponding to these results were presented in Table 4, Reference 9

TABLE 2-B. LIQUID POTASSIUM HEAT TRANSFER RESULTS  
FROM THE 50 KW FACILITY

Run. No.	Date	T <sub>K</sub> (°F)	T <sub>Na</sub> (°F)	W <sub>K</sub> (lb <sub>m</sub> /hr)	W <sub>Na</sub> (lb <sub>m</sub> /hr)	Q (KW)	U (Btu/hr-ft <sup>2</sup> °F)	N <sub>NuK</sub> *	N <sub>PeK</sub>	N <sub>PeNa</sub>
1	7/28/63	705	668	2138	1397	6.2	944	5.32,	8.29	37
2	7/28/63	703	665	2005	1951	6.2	933	5.33,	8.04	52
3	7/28/63	698	659	1746	2469	6.2	927	5.03,	7.37	66
4	7/28/63	699	661	1470	2898	6.1	922	4.96,	7.20	77
5	7/28/63	688	668	1183	3406	3.6	928	4.40,	7.01	91
6	7/28/63	689	670	994	3844	3.5	938	4.29,	7.11	103
7	7/28/63	688	673	758	4377	3.4	928	3.95,	6.81	117
8	7/28/63	595	586	539	5516	2.9	939	2.23,	4.55	145
9	7/28/63	691	665	1509	5861	4.0	923	4.83,	7.24	157
10	8/1/63	683	669	2010	5936	2.3	1033	5.21,	11.47	159

\*Two N<sub>Nu</sub> were calculated for each run; the first using the wall thermocouples entering from the bottom of the test section, the second from the top. Both rings of wall thermocouples were at an L/D of approximately 29.

TABLE 3. CONDENSING HEAT TRANSFER RESULTS  
FROM THE 50 KW FACILITY

Run No.	Date	Top		Bottom	
		$\frac{h}{k} \left( \frac{v^2}{g} \right)^{1/3}$	$\frac{D\Gamma}{\mu}$	$\frac{h}{k} \left( \frac{v^2}{g} \right)^{1/3}$	$\frac{D\Gamma}{\mu}$
1	12/4/63	.0112	258	.0171	518
2	12/4/63	.0111	258	.0177	517
3	12/4/63	.0114	261	.0170	526
4	12/4/63	.0118	268	.0163	528
5	12/7/63	.0137	237	.0200	488
6	12/7/63	.0165	258	.0182	516
7	12/7/63	.0134	269	.0190	521
8	12/7/63	.0135	265	.0184	513
9	12/7/63	.0205	224	.0222	495
10	12/7/63	.0204	248	.0219	510
11	12/7/63	.0200	224	.0242	494
12	12/7/63	.0211	245	.0221	520
13	12/7/63	.0188	244	.0236	520
14	12/7/63	.0220	273	.0242	546
15	12/7/63	.0231	255	.0227	526
16	12/7/63	.0224	264	.0241	530
17	12/7/63	.0188	237	.0241	506
18	12/7/63	.0192	267	.0253	535



TABLE 4. POTASSIUM CONDENSING RESULTS - 50 KW FACILITY\*

Run No.	Date	$h$ Btu/hr-ft <sup>2</sup> °F	$\frac{h}{k} \left( \frac{\nu^2}{g} \right)^{1/3}$ Dimensionless	$\frac{D\Gamma}{\mu}$ Dimensionless	$\dot{q}/A_1$ (10 <sup>-4</sup> ) Btu/hr-ft <sup>2</sup>
1	5/17/63	5905	.0165	908	3.05
2	5/17/63	5720	.0160	956	3.03
3	5/17/63	6380	.0179	893	3.27
4	5/17/63	7270	.0204	946	3.33
5	5/17/63	5870	.0164	934	3.36
6	5/17/63	5580	.0156	1026	3.36
7	5/17/63	5760	.0161	993	3.49
8	5/17/63	5580	.0156	966	3.40
9	5/17/63	5560	.0156	836	3.32
10	5/17/63	5120	.0143	1029	3.56
11	5/17/63	4820	.0135	1015	3.53

\*The raw data corresponding to these results were presented in Table 8, p. 163, Reference 9. Thermocouple corrections based on Table 9, p. 164 of Reference 9 were used in calculating these results. (These data are presented in more detail in Tables C-1 and C-2 of Appendix C.)

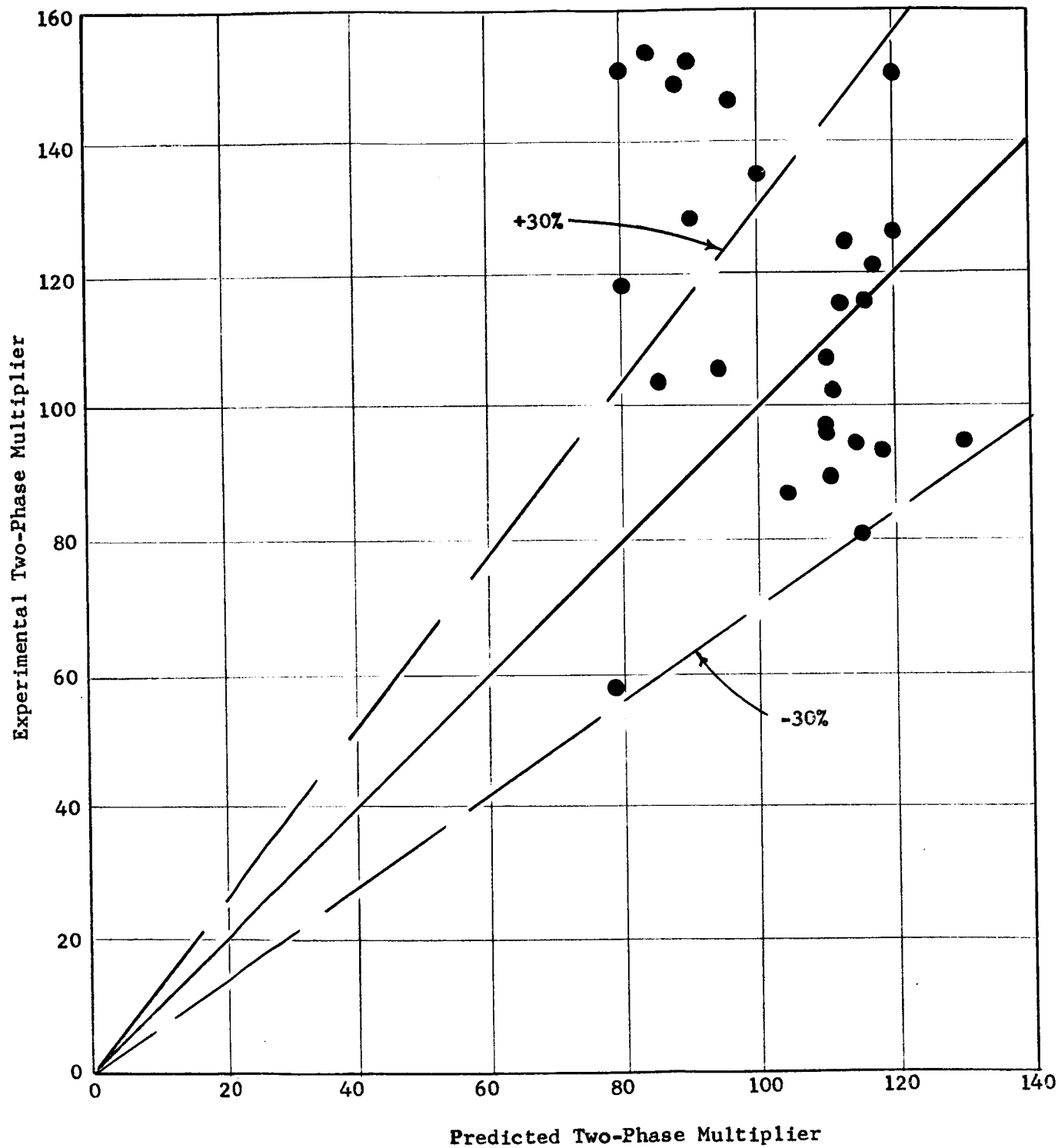


Figure 1. Experimental and predicted two-phase pressure drop multipliers for boiling potassium with 2-inch pitch helical insert. (For 300 KW Facility)

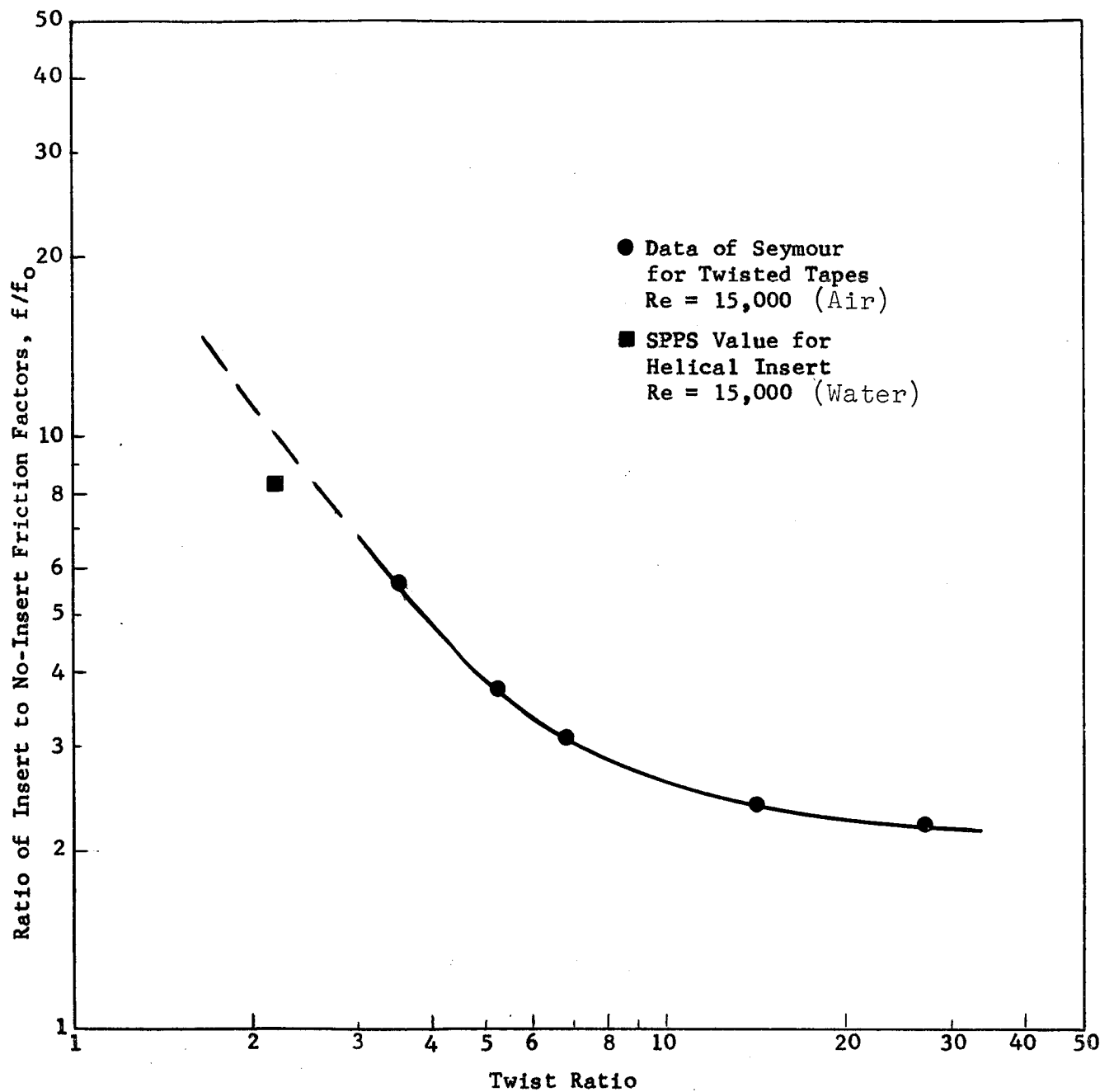


Figure 2. Water Pressure Drop Multiplier for 2-inch Pitch Helical Insert, 300 KW Facility.

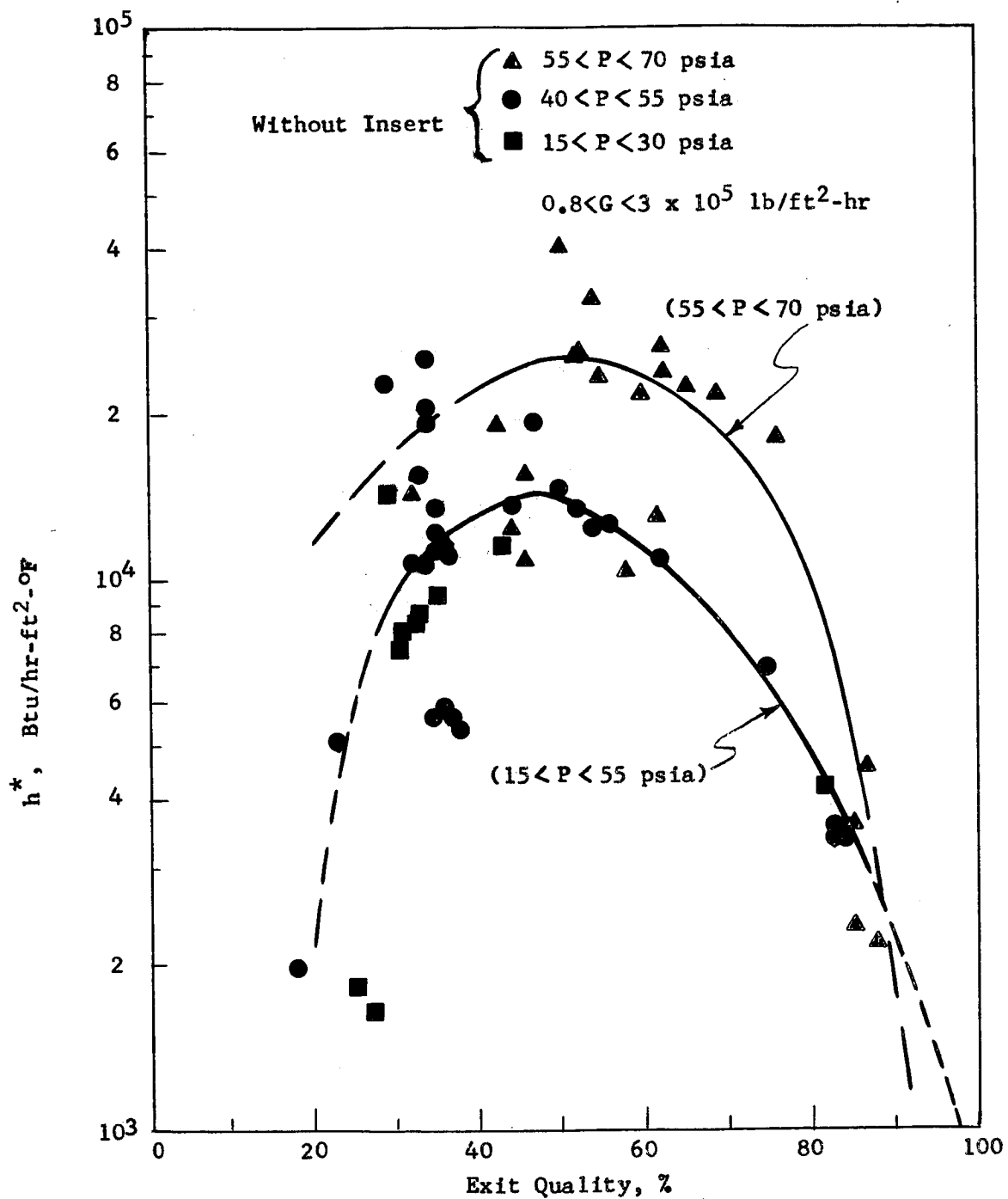


Figure 3. Average Boiling Potassium Heat Transfer Coefficient Without Insert, 300 KW Facility.

\*Averaged over boiling length

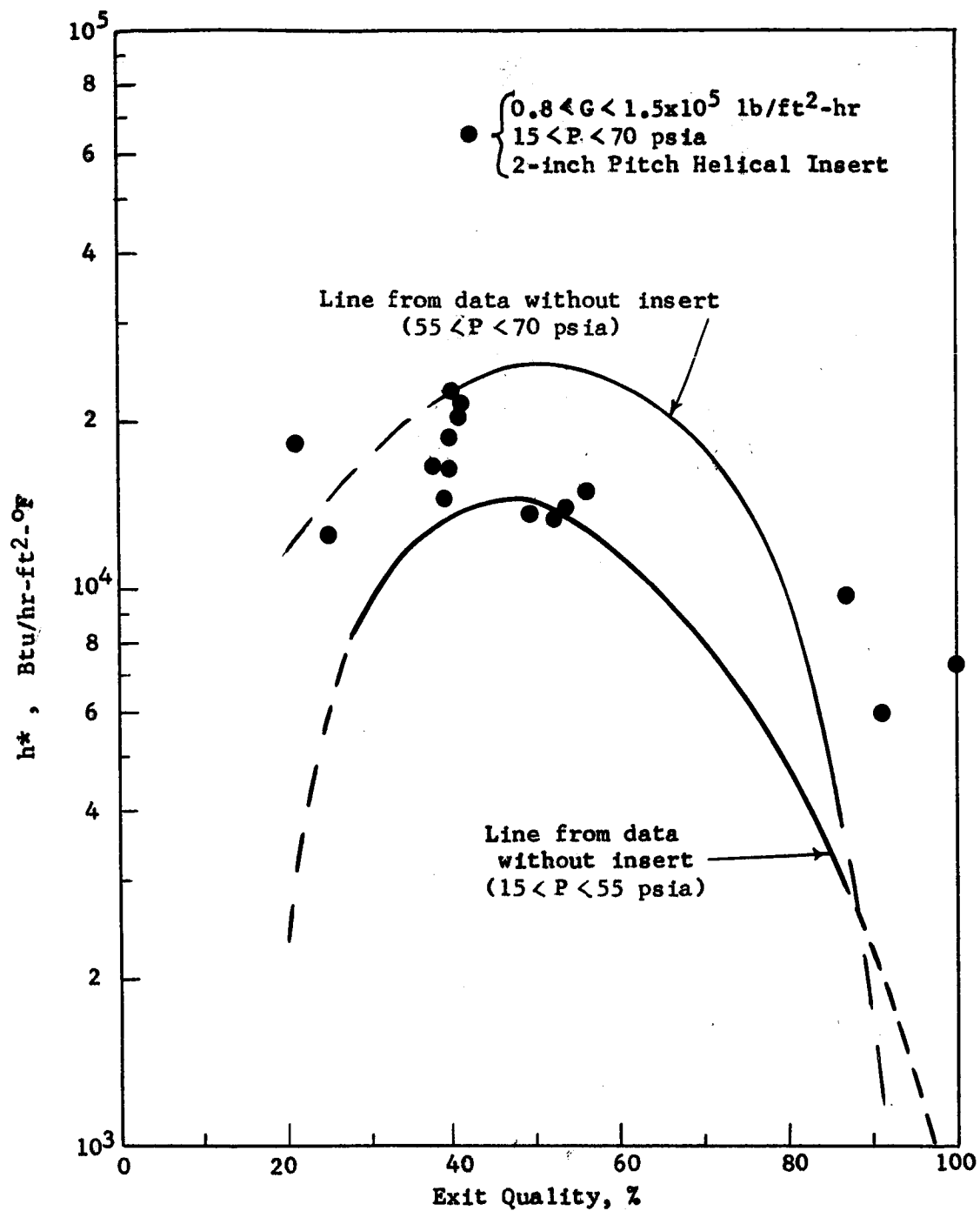


Figure 4. Comparison of Average Potassium Boiling Heat Transfer Coefficients With and Without 2-inch Pitch Insert, 300 KW Facility.

\* Averaged over boiling length

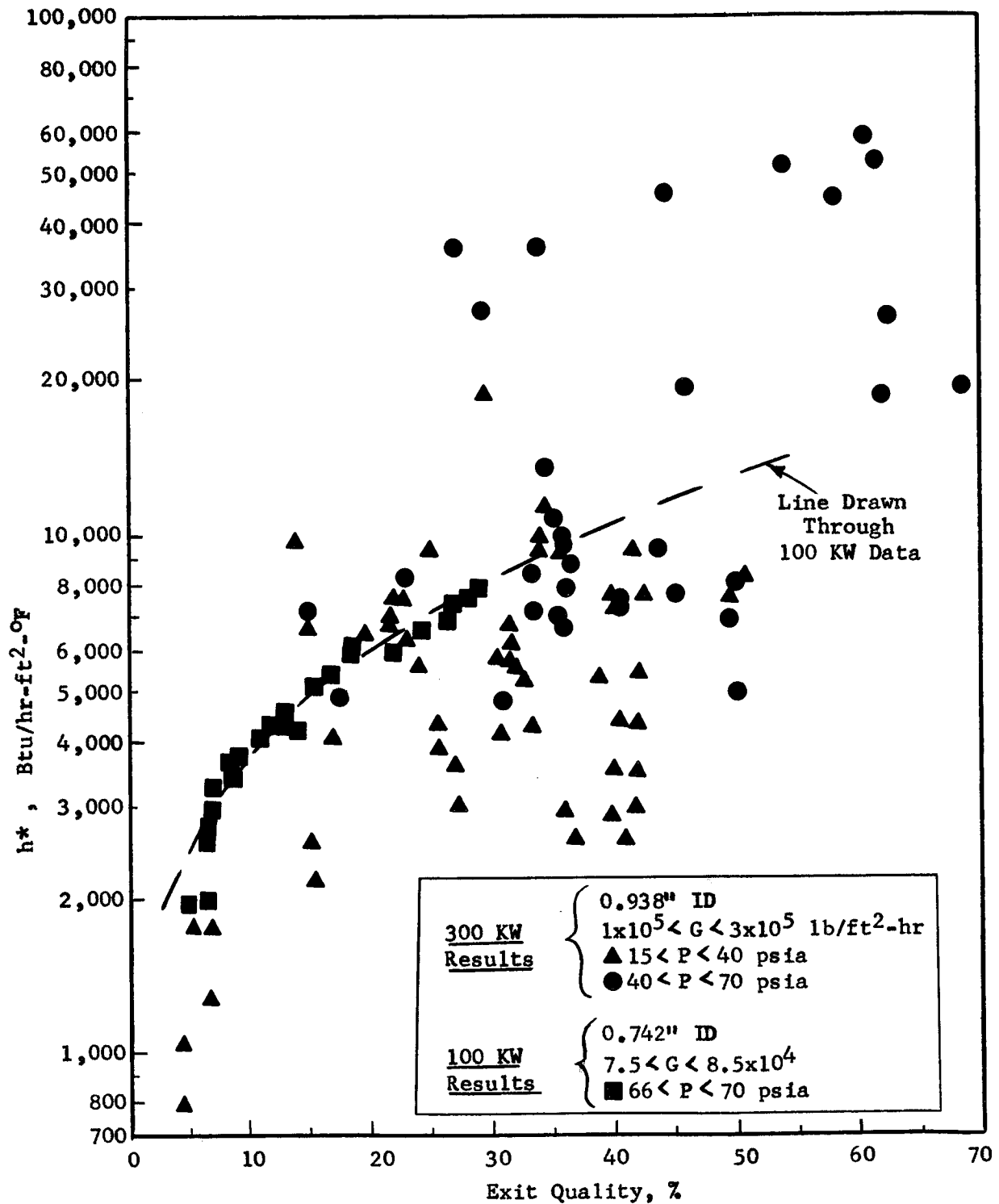


Figure 5. Average Nucleate Boiling Coefficients Without Insert, 300 KW and 100 KW Facilities.

\*Average over nucleate boiling length

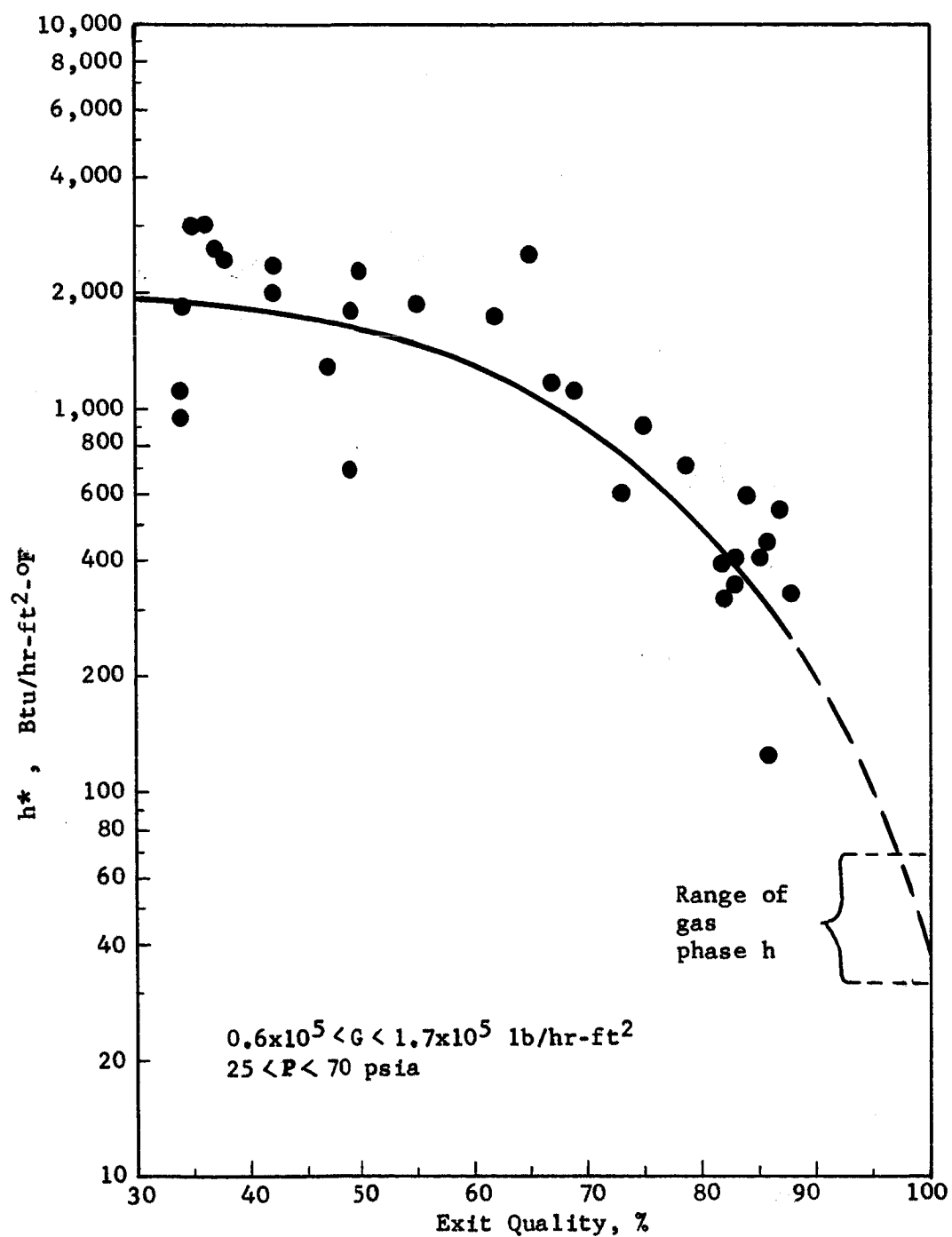


Figure 6. Average Transition and Film Boiling Coefficients Without Insert, 300 KW Facility.

\*Average over transition boiling length

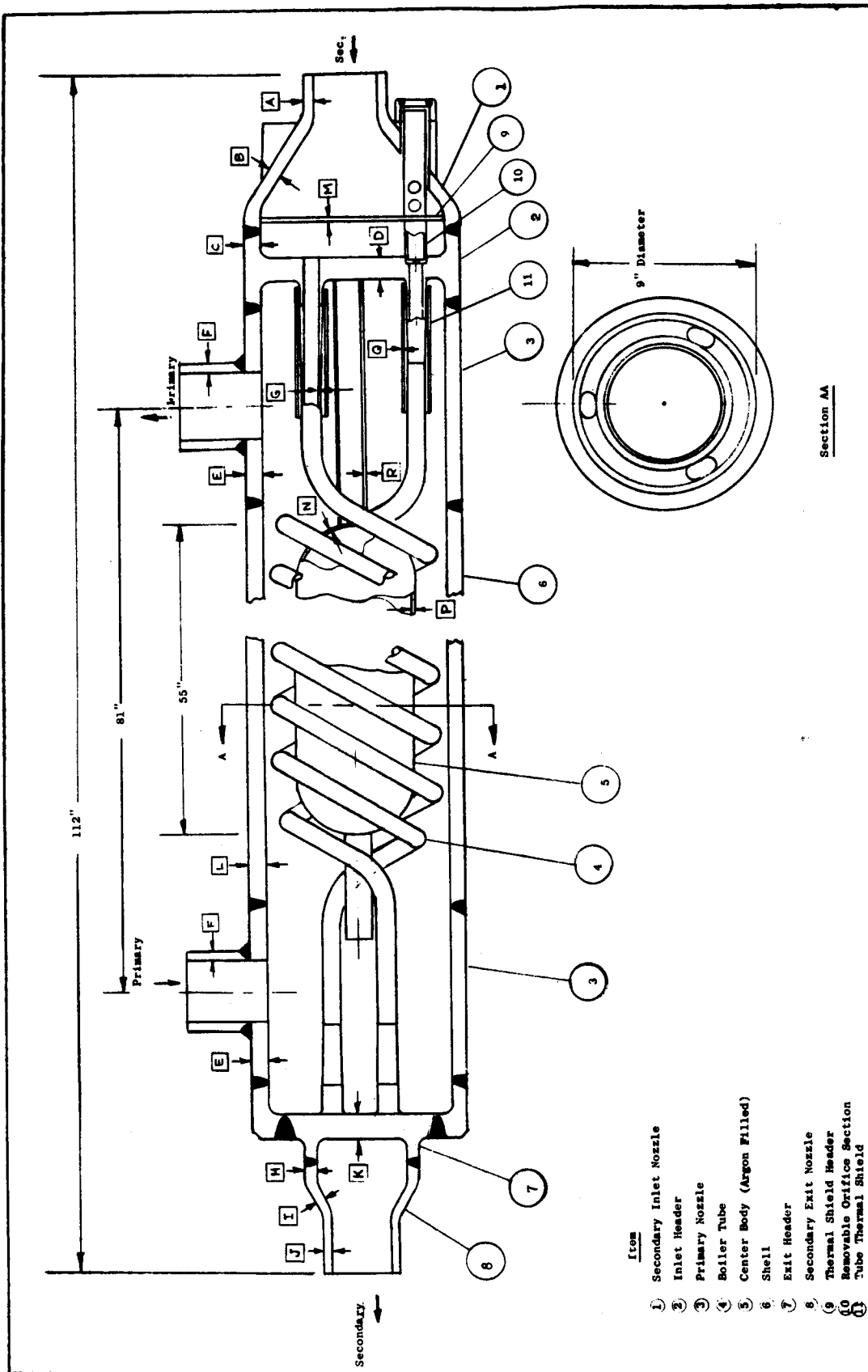


Figure 7. Multi-Tube Boiler for the 300 KW Facility



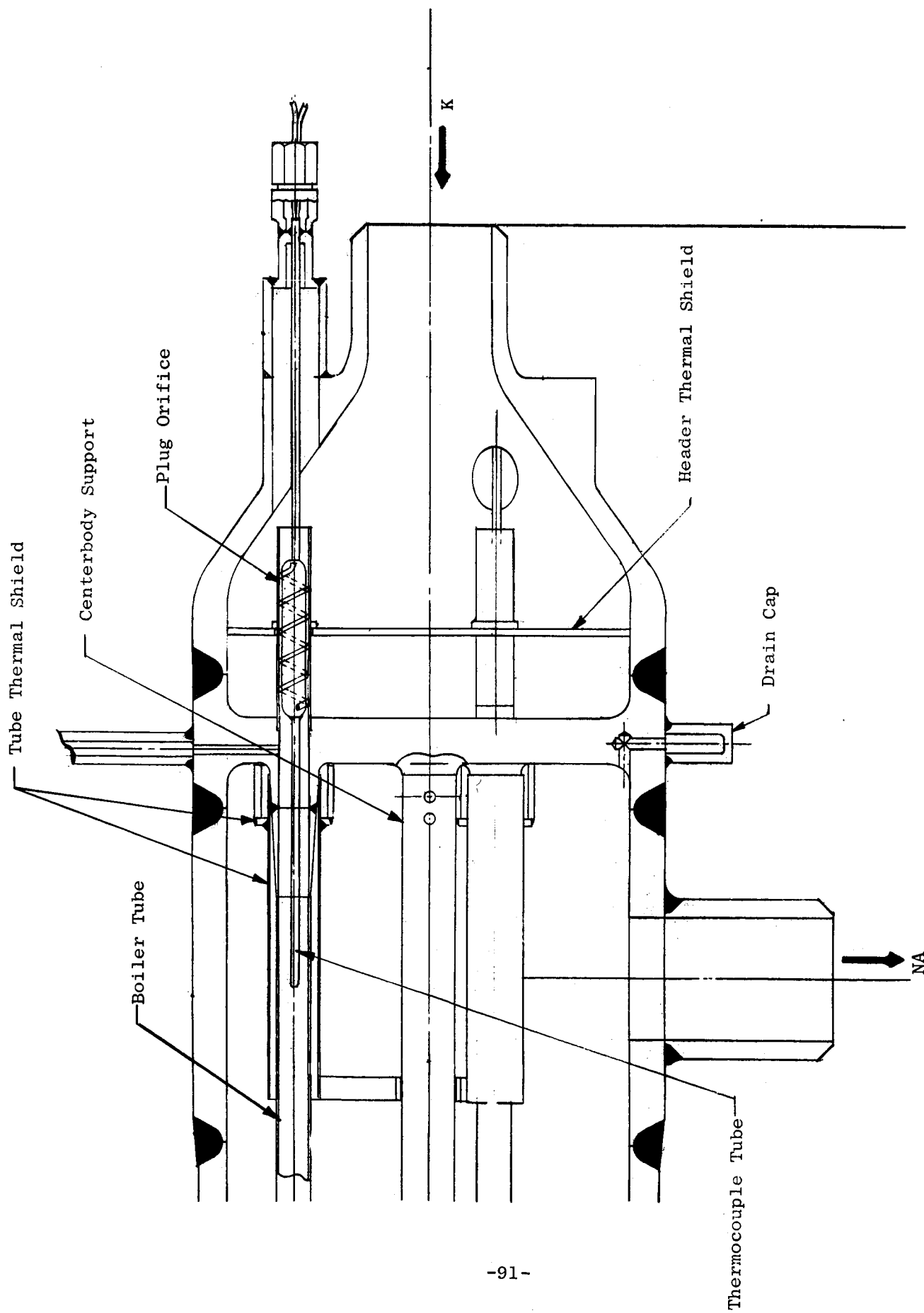


Figure 8.. Plug Orifice Assembly for the 300 KW Facility  
Multi-Tube Boiler

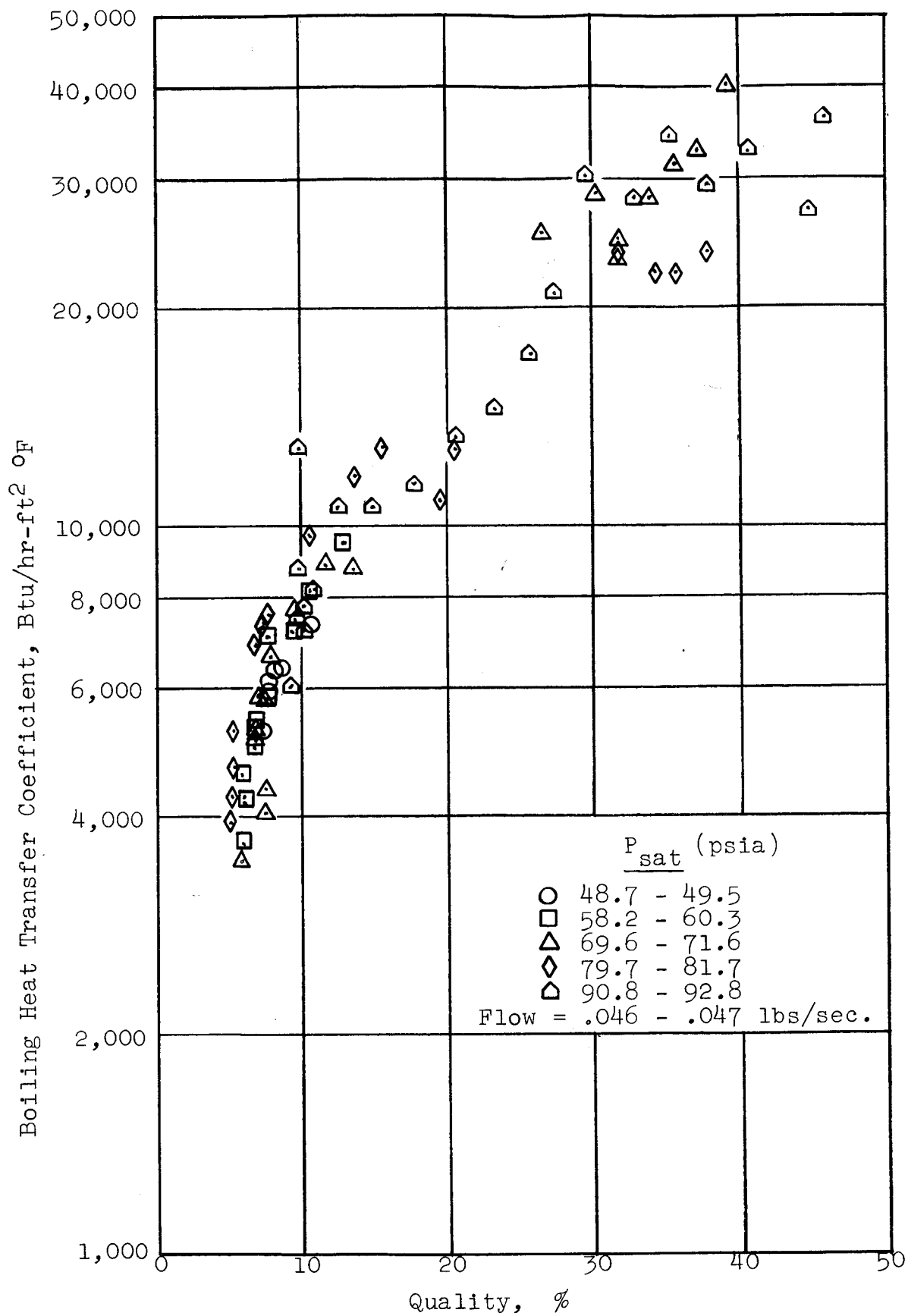


Figure 9-A. Boiling potassium data at constant flow rate  
(100 KW Facility)

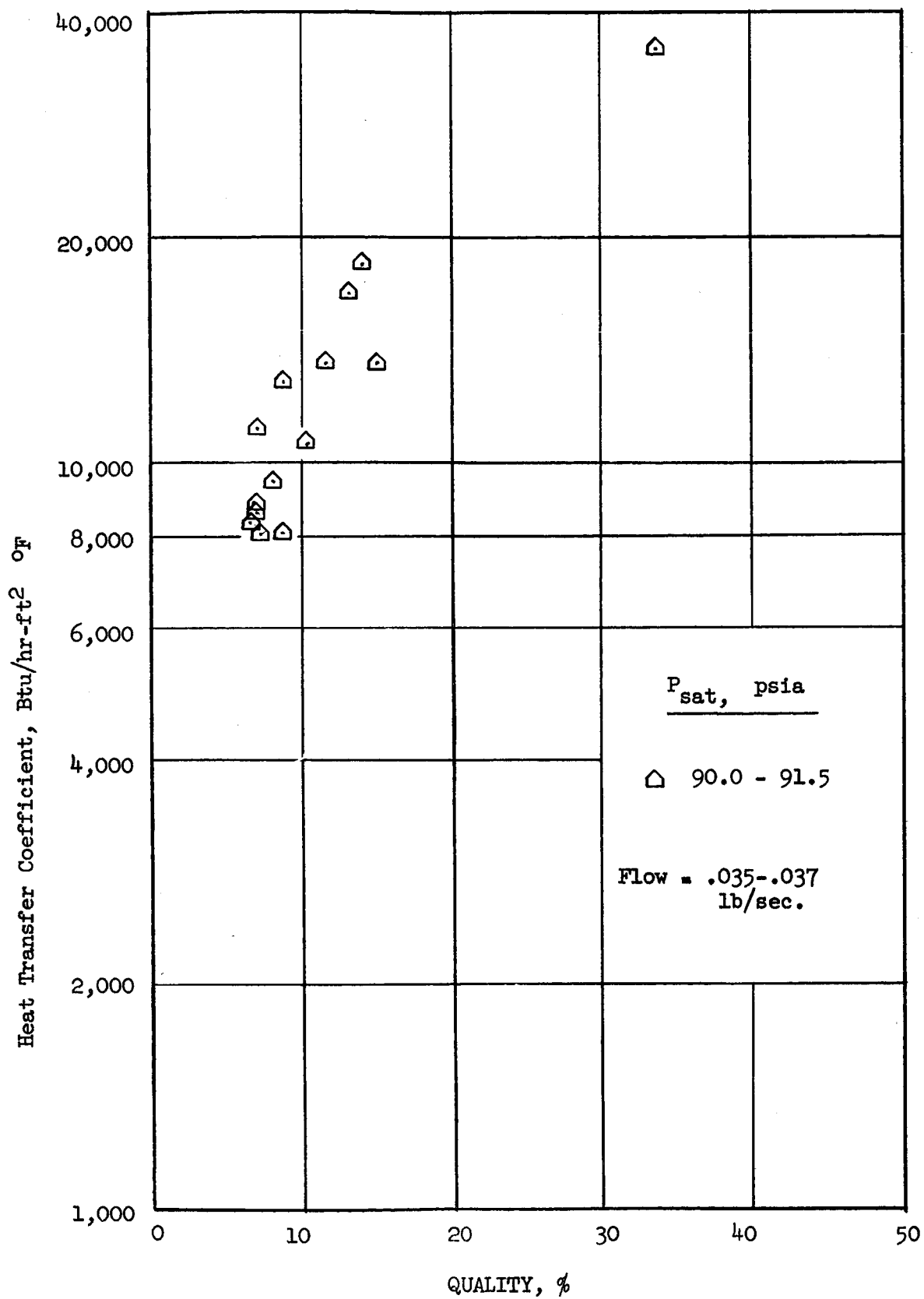


Figure 9-B. Boiling potassium data at constant flow  
(100 KW Facility)

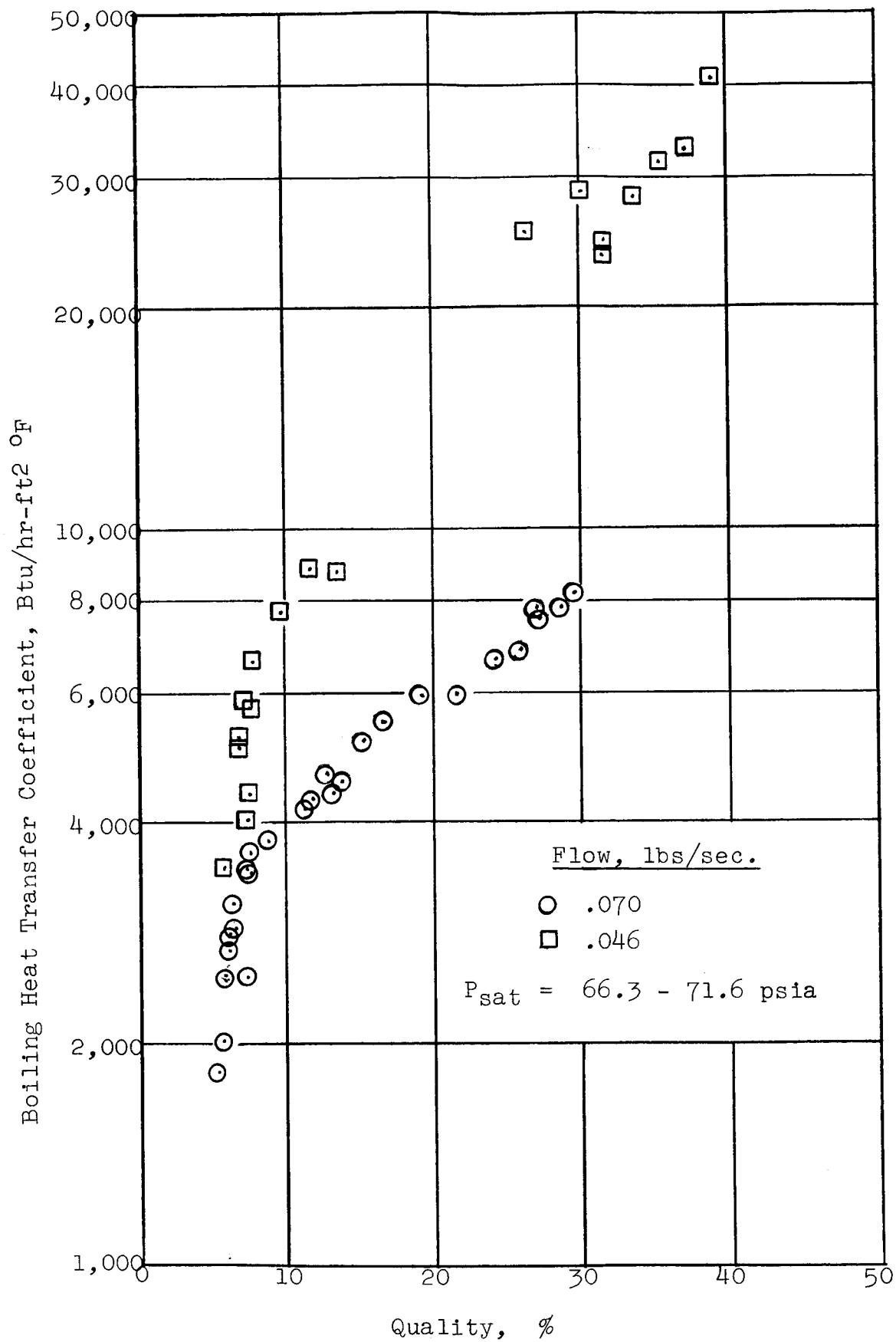


Figure 10-A. Boiling potassium data at constant pressure  
(100 KW Facility)

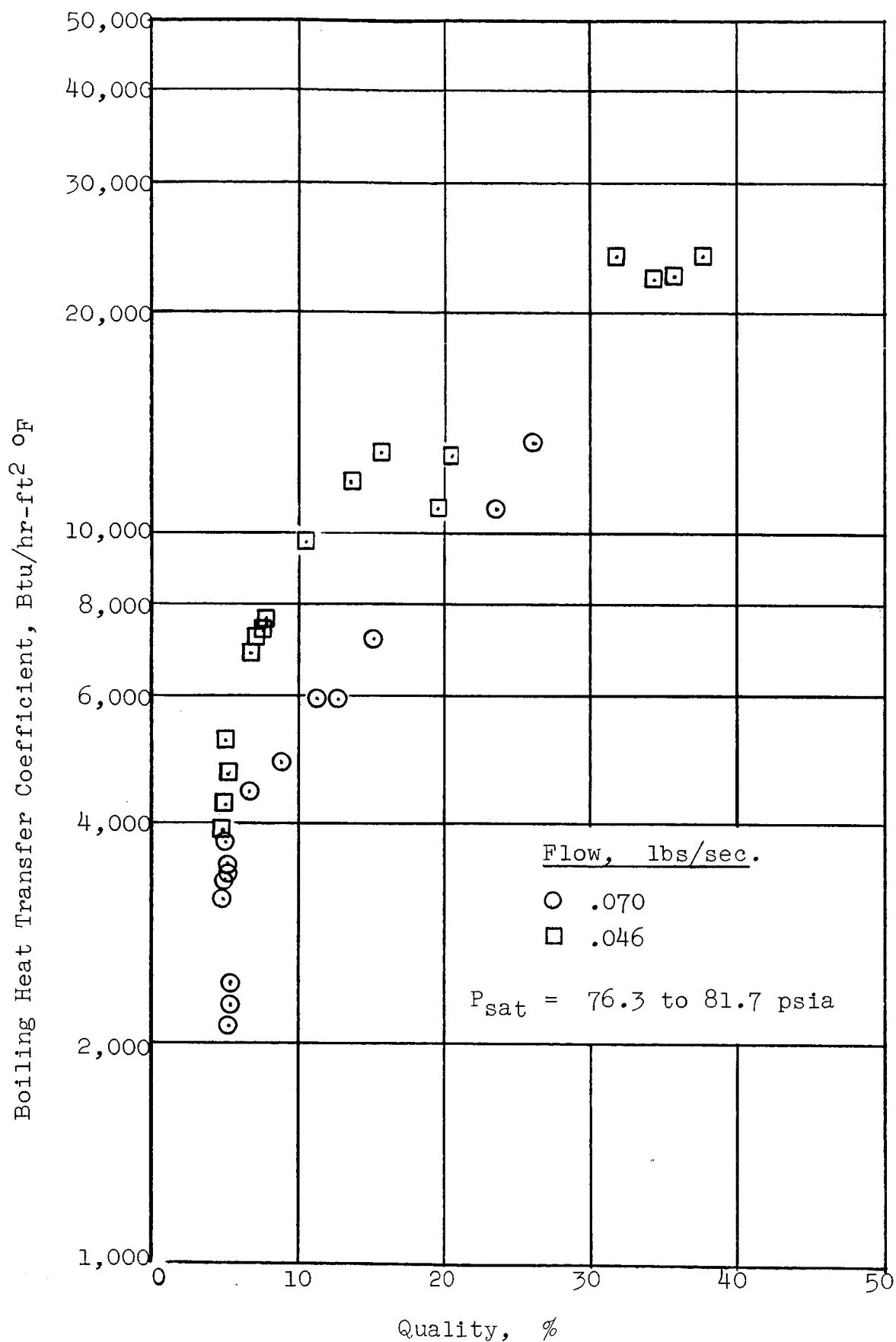


Figure 10-B. Boiling potassium data at constant pressure  
(100 KW Facility)

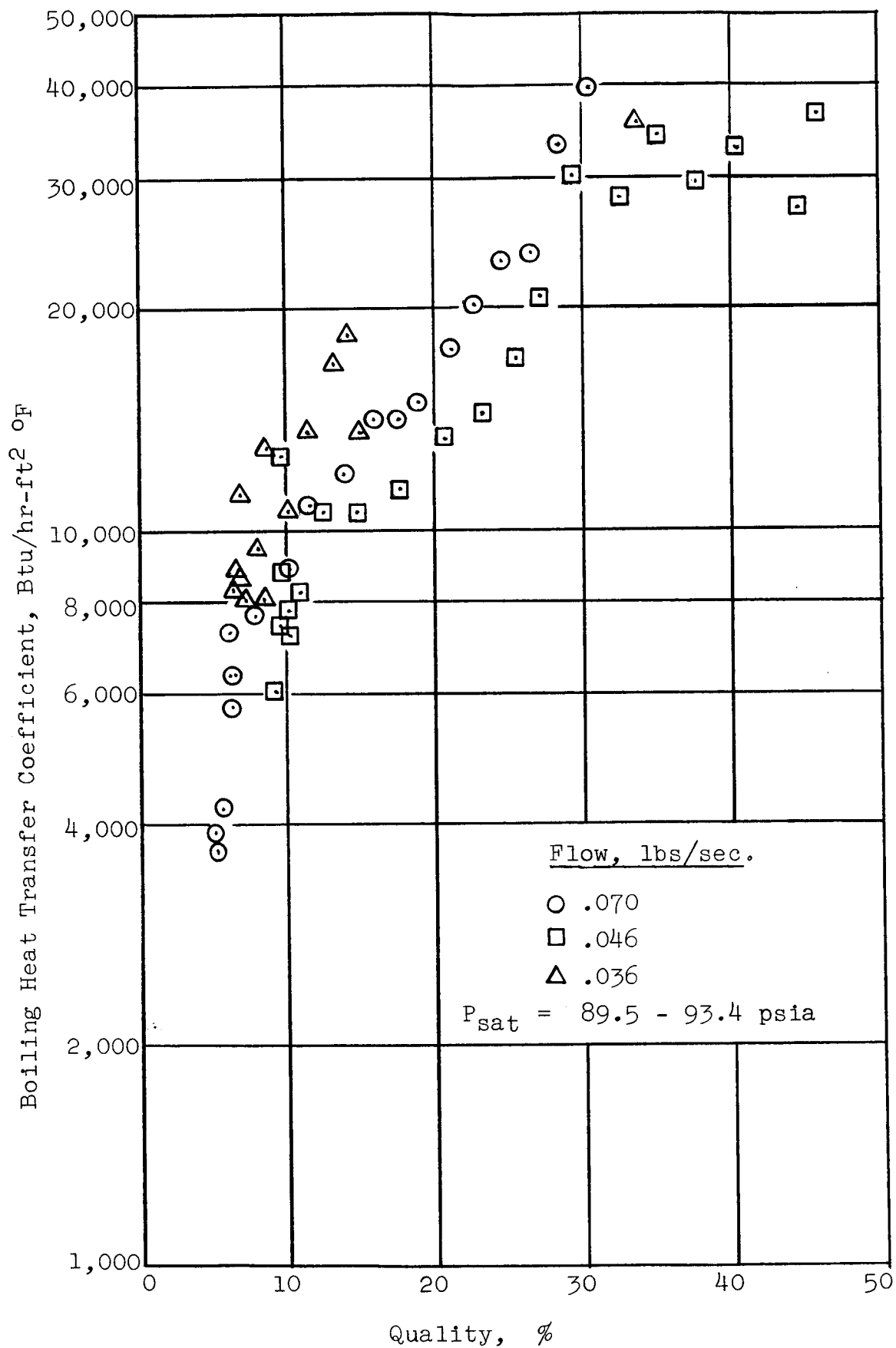


Figure 10-C Boiling potassium data at constant pressure.  
(100 KW Facility)

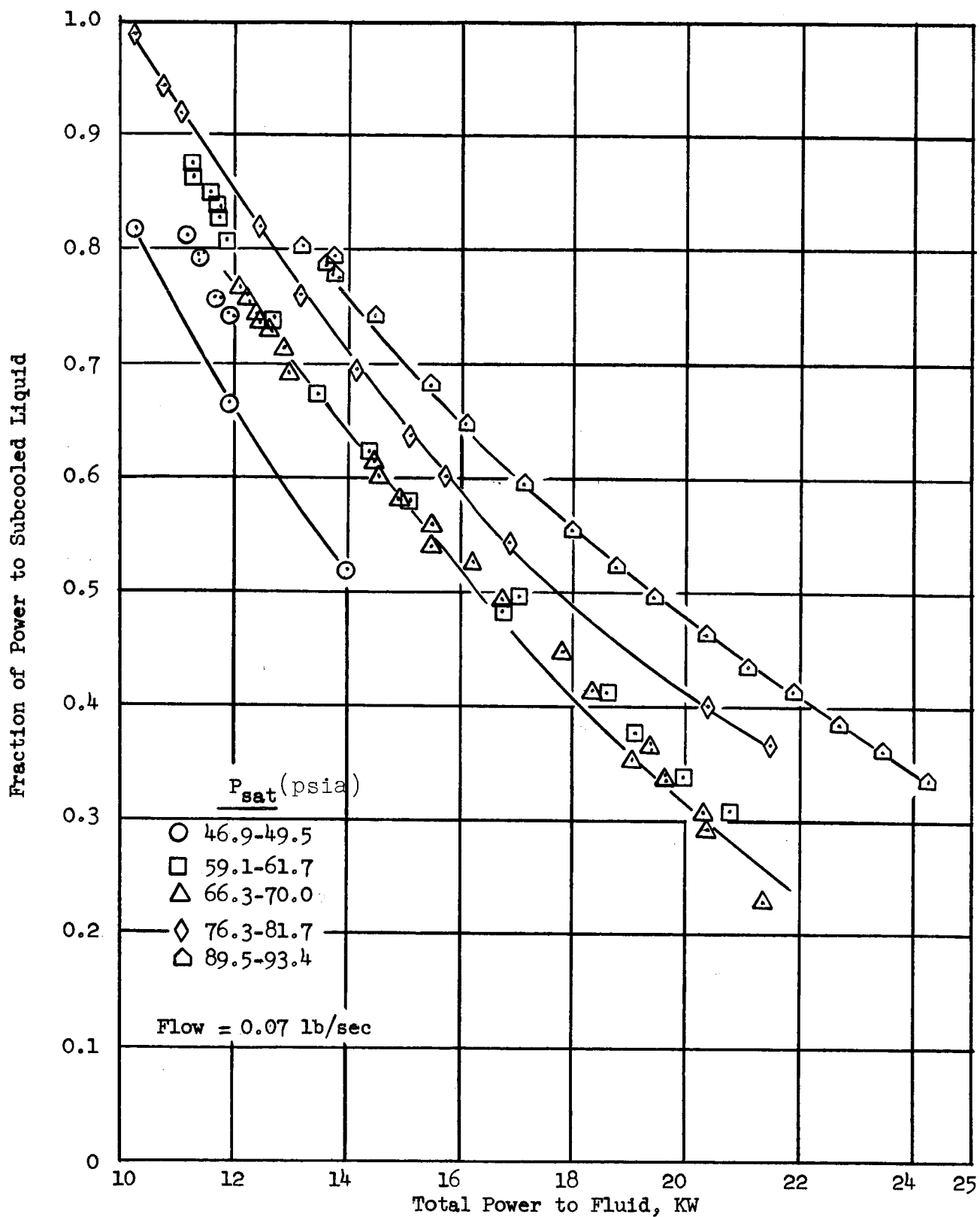


Figure 11. 100 KW Facility Condenser Performance

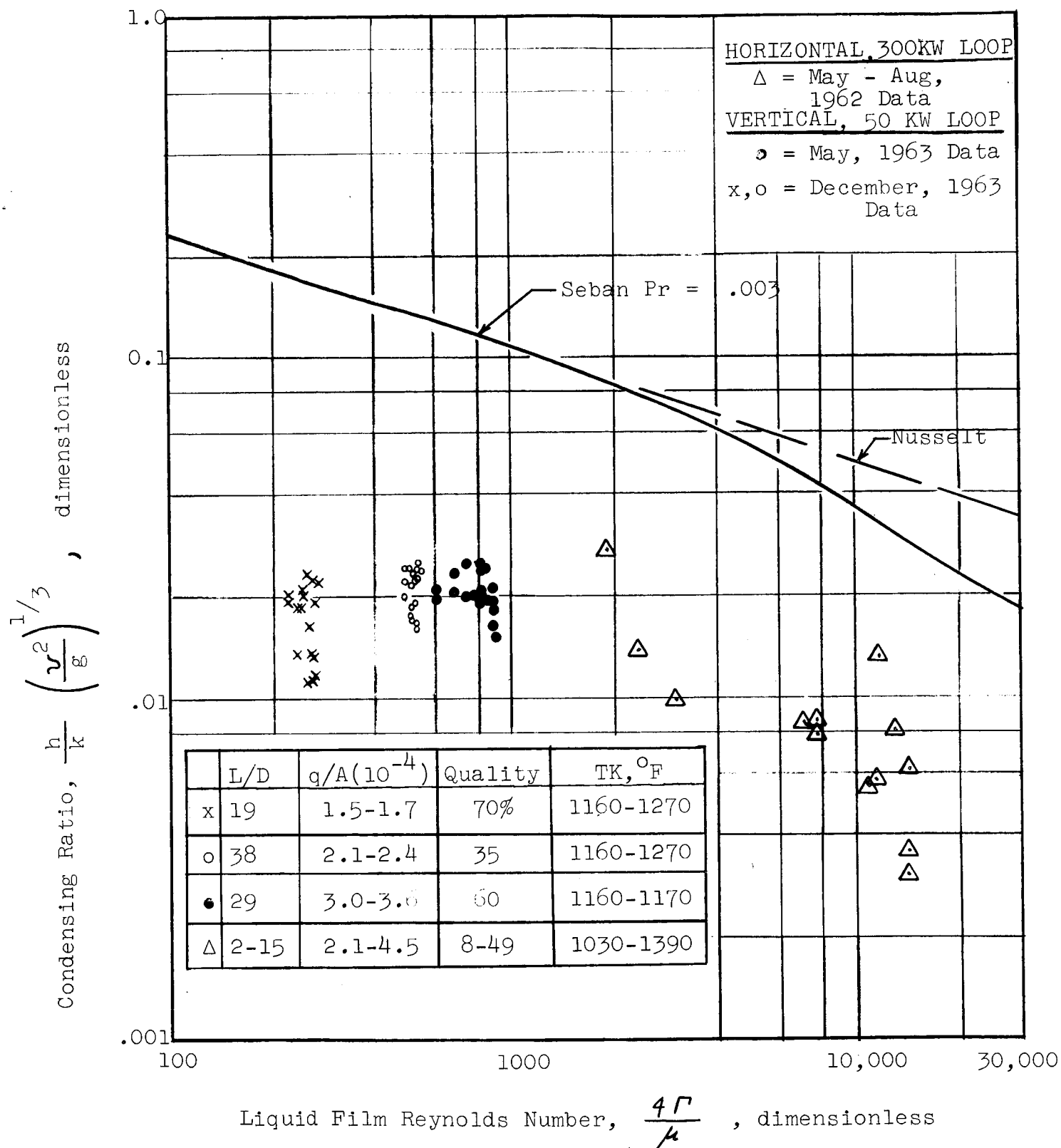


Figure 12 Local Condensing Heat Transfer Results for Potassium Vapor. (50 KW Facility)



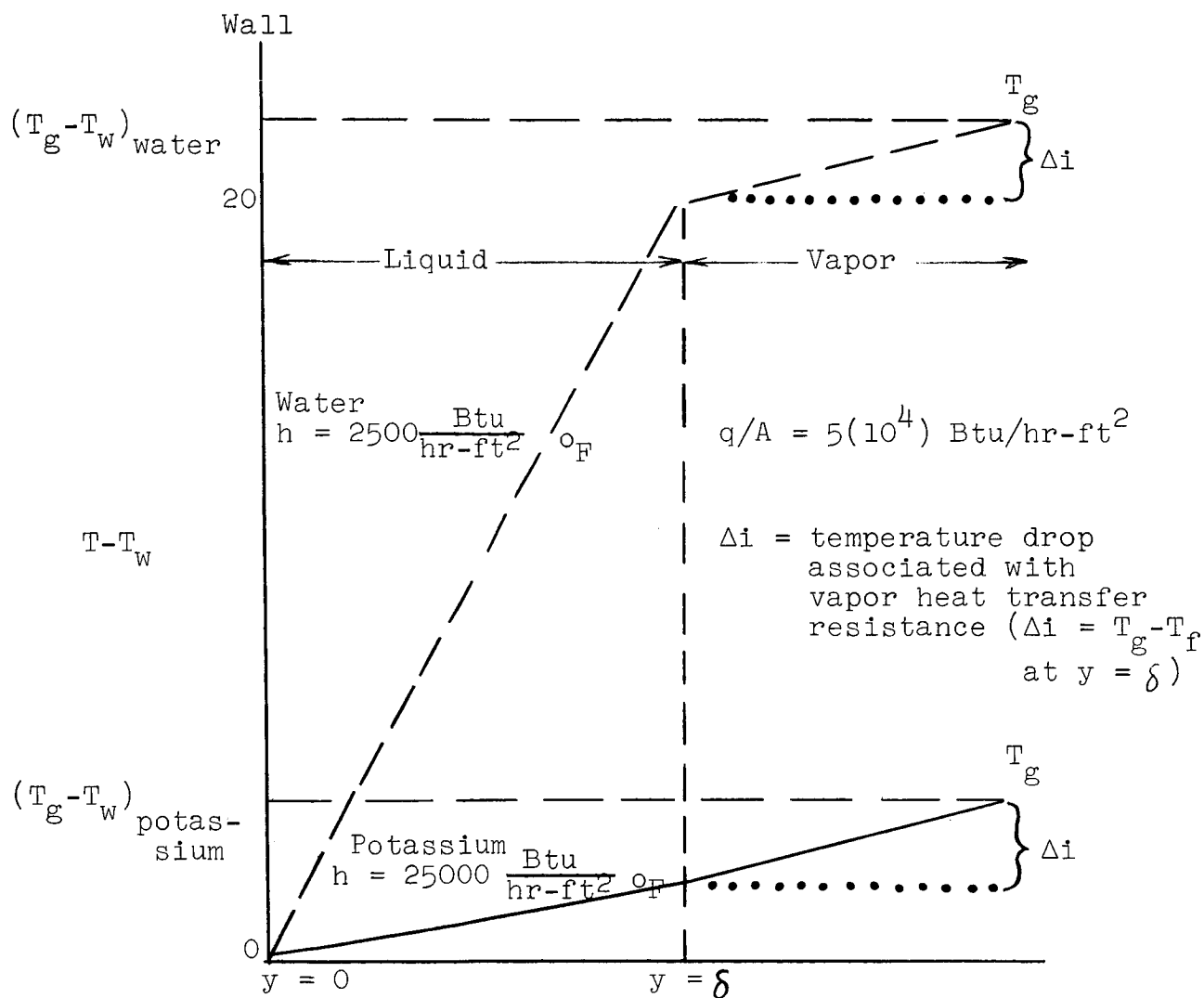


Figure 13. Comparison of Temperature Profiles for Water and Potassium During Film Condensation.

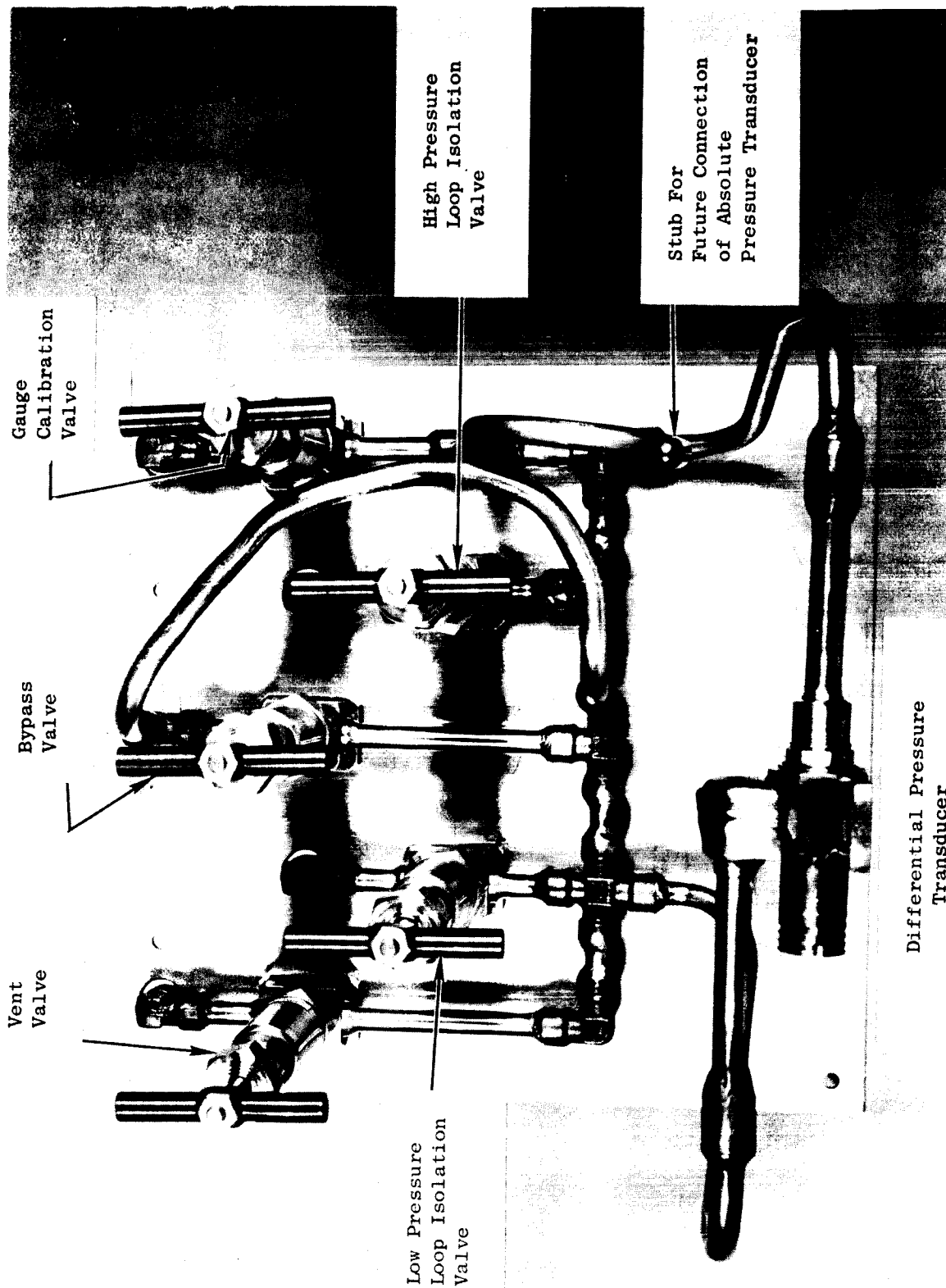


Figure 14. Differential Pressure Measuring System - 300 KW Facility Boiler

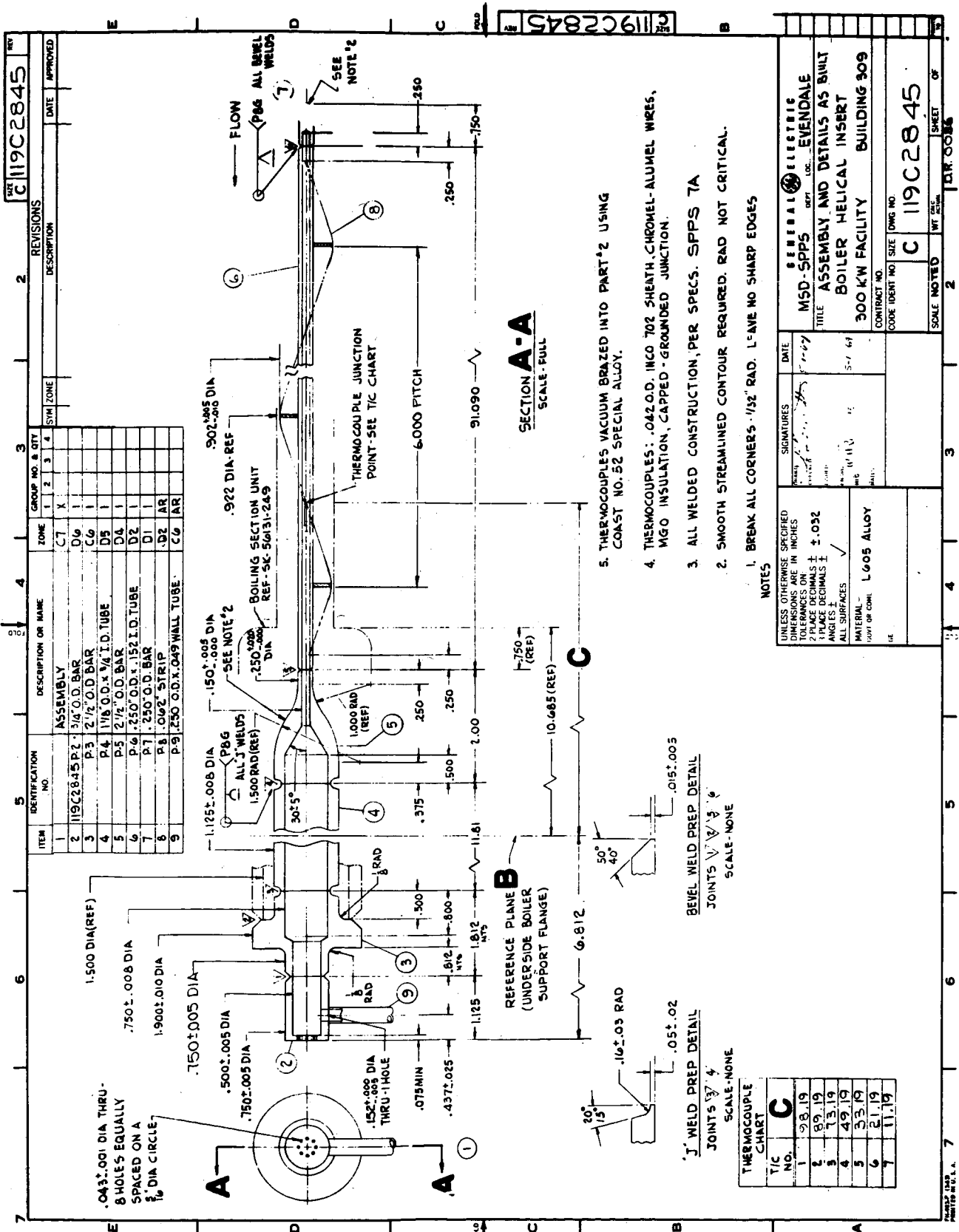
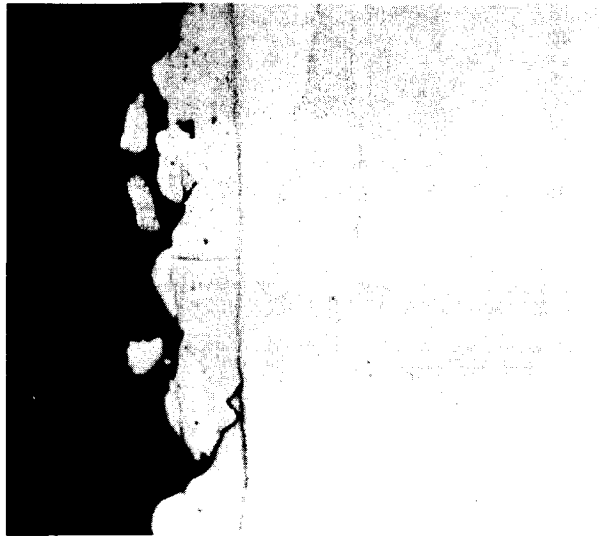
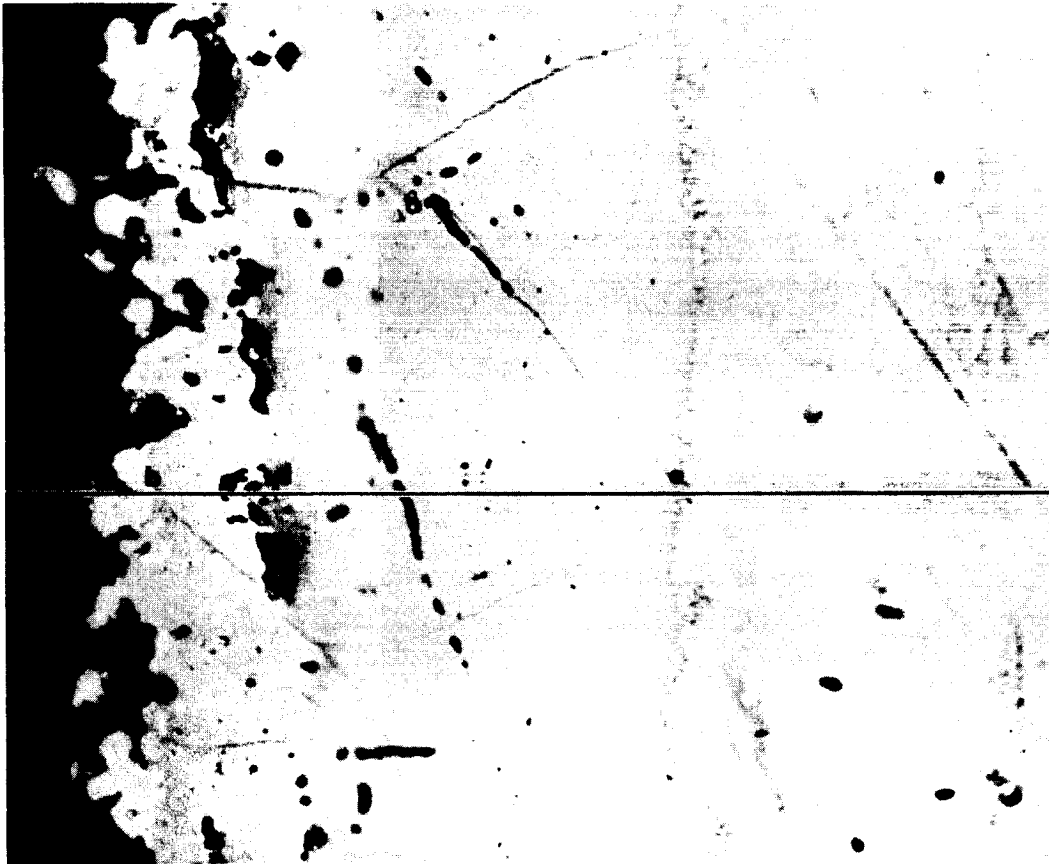


Figure 15. Boiler Helical Insert for 300 KW Facility  
(6.0 - Inch Pitch)



a) Transverse Section  
Unetched

Mag: 1000X (K1289)



b) Specimen Mounted at a Low Angle to Increase Width of Layers.  
Unetched

Mag: 500X (K-2040, -2041)

Figure 16. Surface Layers on the Sodium Side of the Mo-0.5Ti Alloy Boiler Pipe from the 300 KW Loop. Horizontal Line Indicates Path of Electron Beam Microanalysis of Layers. Letters Indicate Location of Interfaces Between Various Phases.

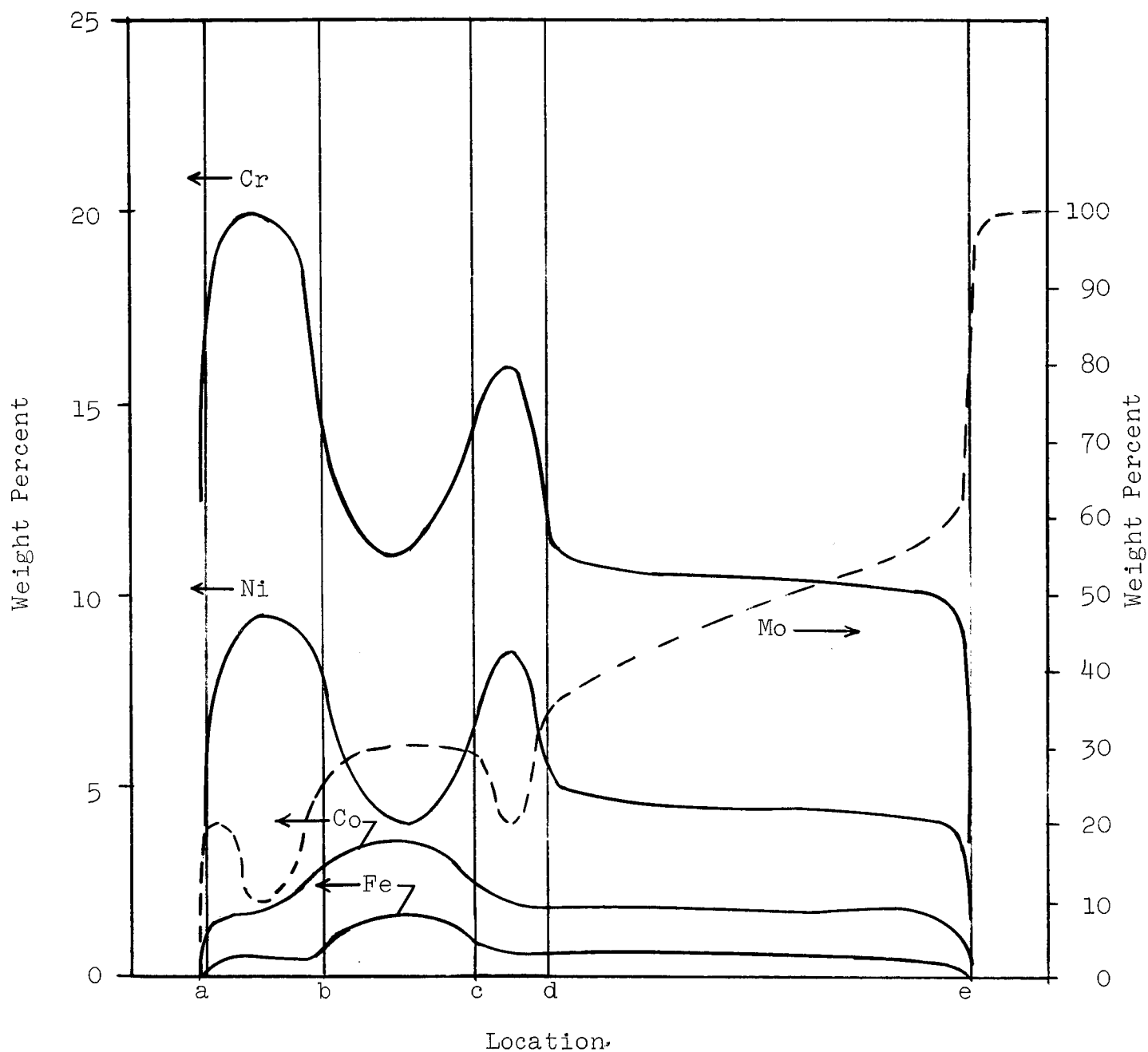


Figure 17. Composition Gradient Across Metallic Layers on Surface of Mo- $\frac{1}{2}$ Ti Alloy Pipe Shown in Figure 16. Locations Indicated Correspond to those given in Figure 16.

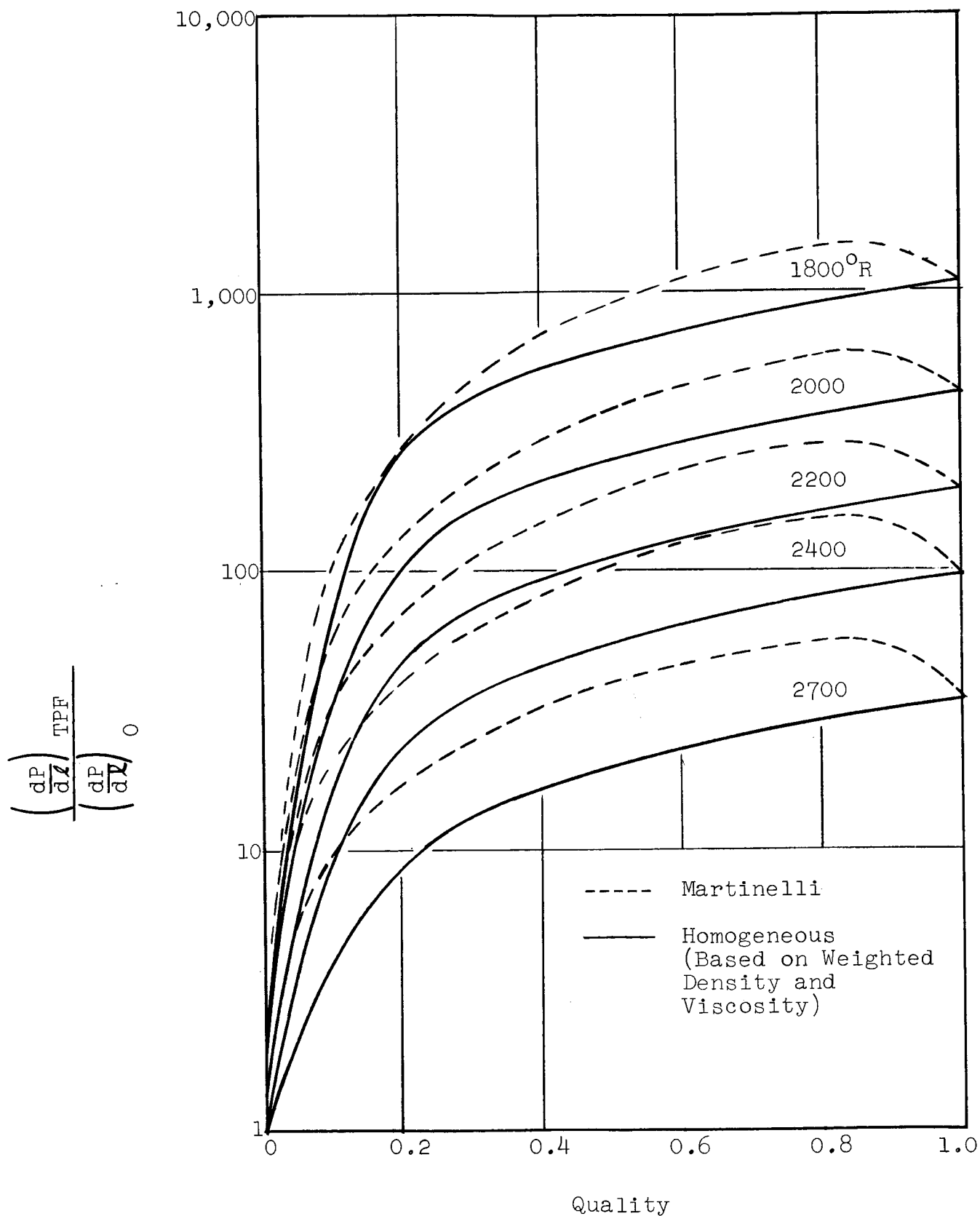


Figure 18. Ratio of Local Two-Phase Pressure Gradient to Pressure Gradient for 100 Percent Liquid Flow as a Function of Quality and Temperature for Potassium.

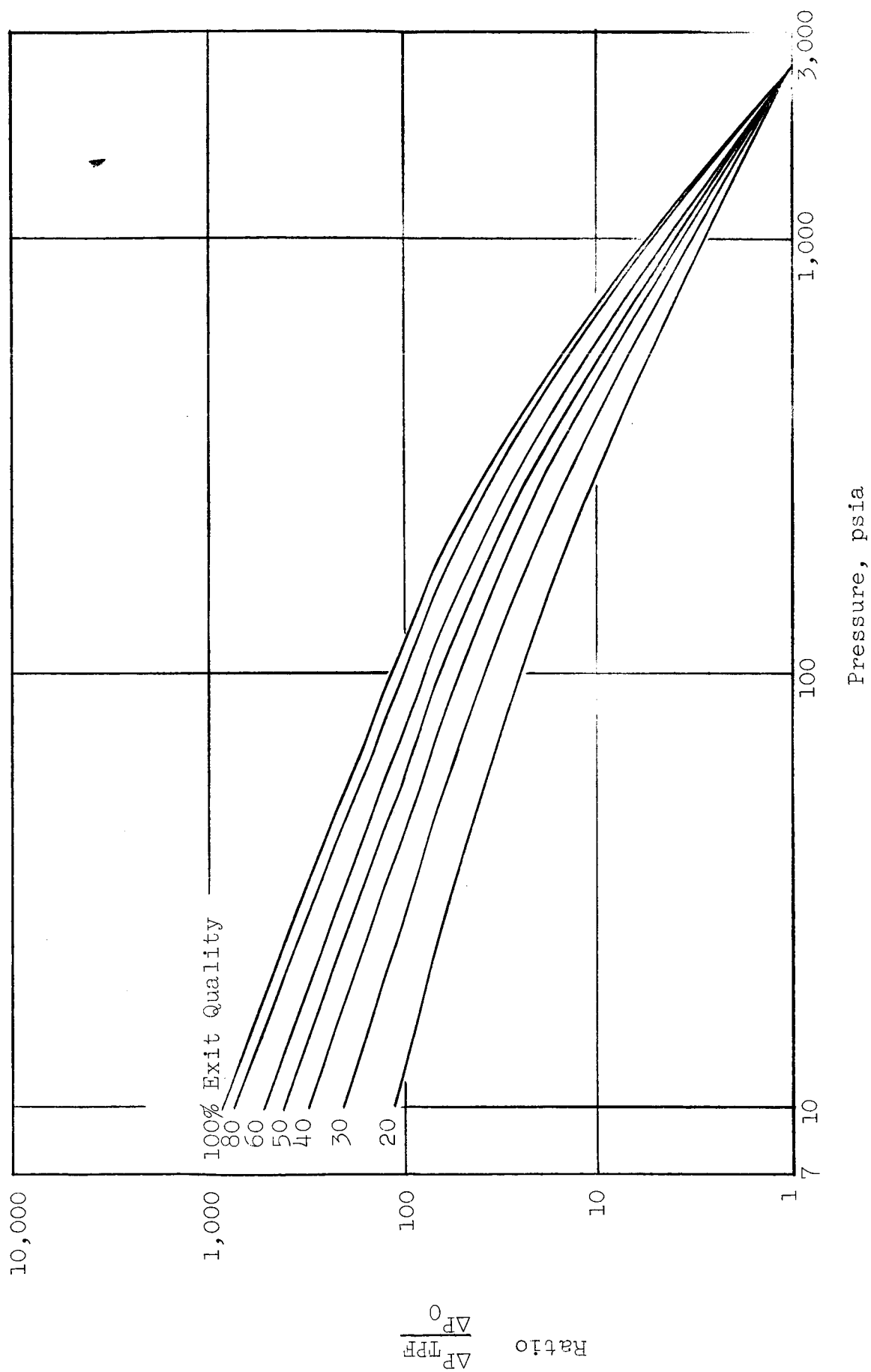


Figure 19. Ratio of  $\Delta P_{TPF}$  to  $\Delta P_0$  as a Function of Exit Quality and Absolute Temperature for Potassium (from the Martinelli curves).

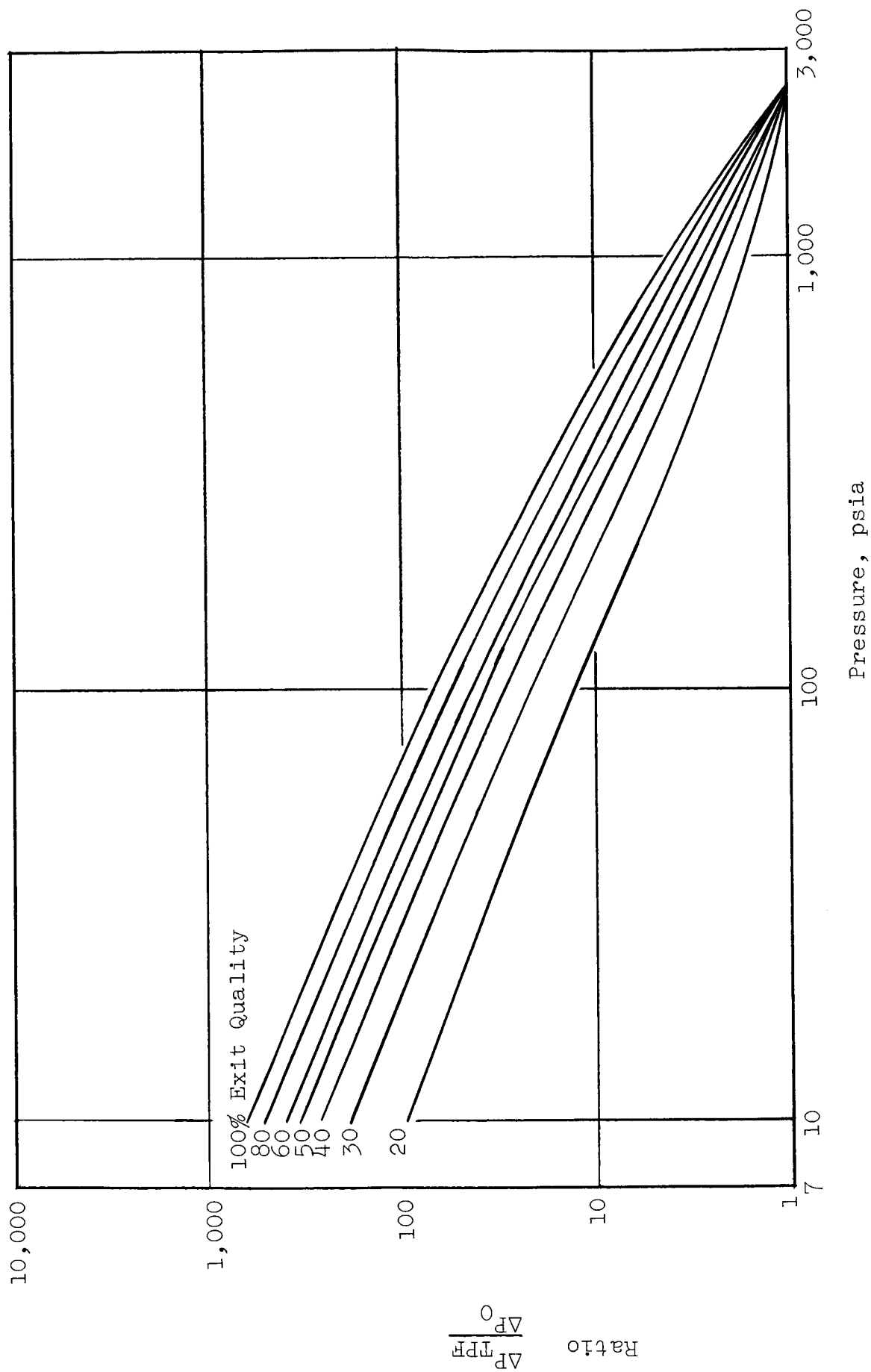


Figure 20. Ratio of  $\Delta P_{TPF}$  to  $\Delta P_0$  as a Function of Exit Quality and Absolute Temperature for Potassium (from the homogenous curves).



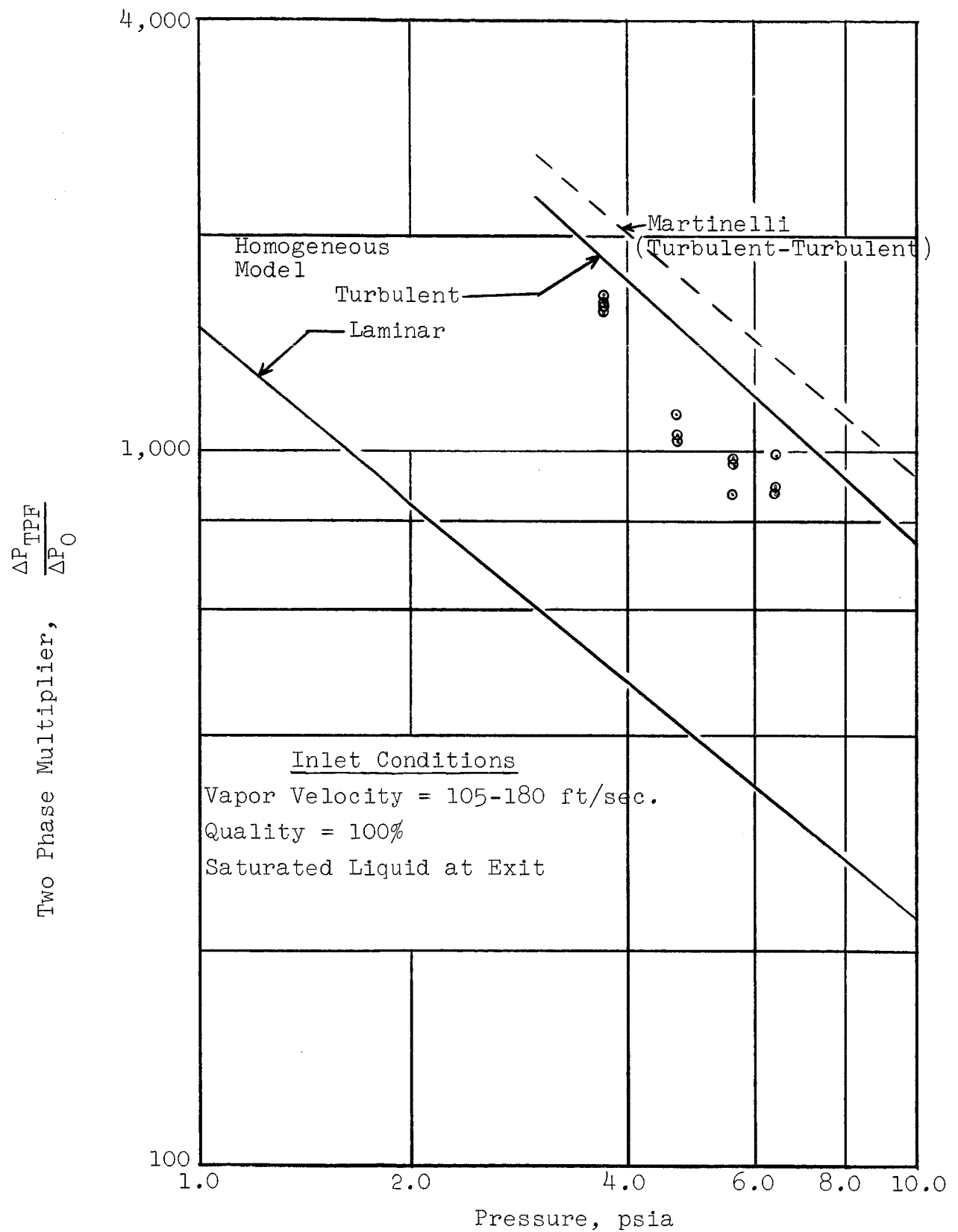
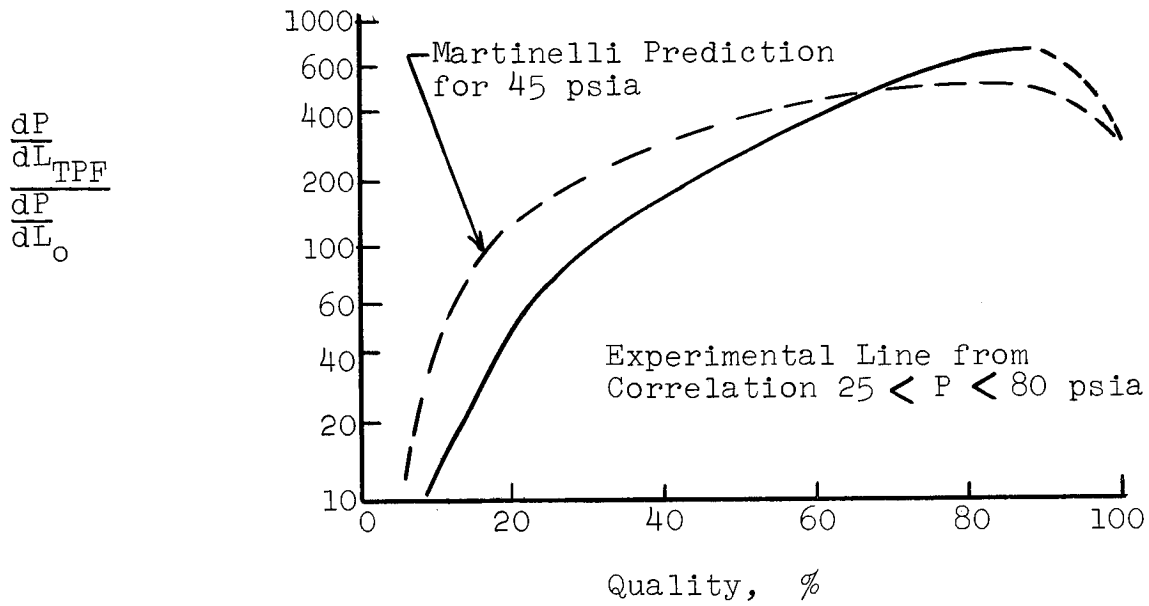


Figure 21. Condensing Pressure Drop from 50 KW Facility.

# Two-Phase Potassium (Adiabatic Pipe)



# Steam-Water (Janssen, GEAP-4362)

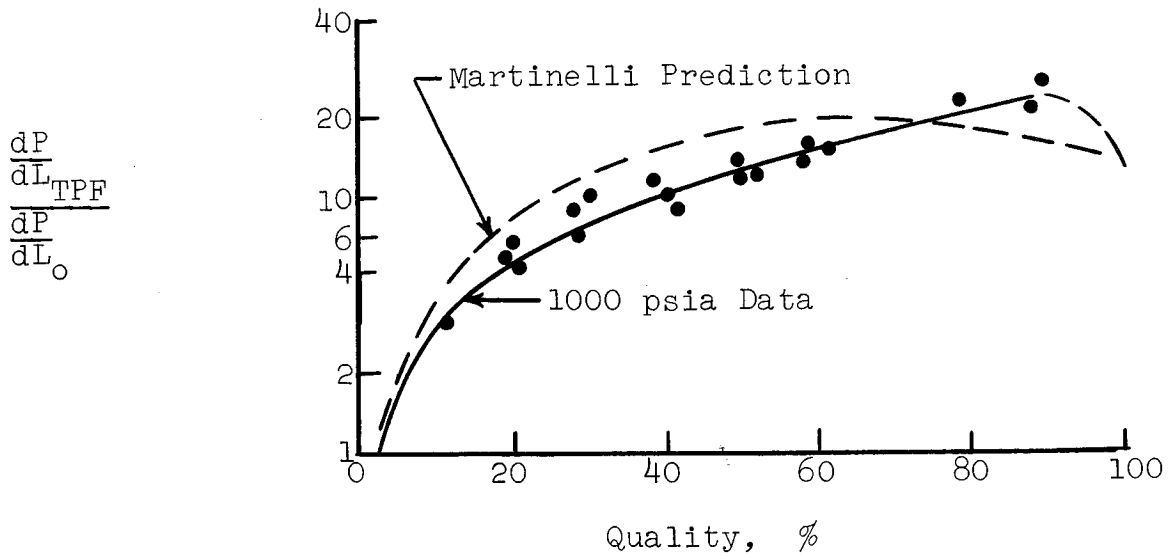


Figure 22 . Comparison of Experimental Results with the Martinelli Prediction.

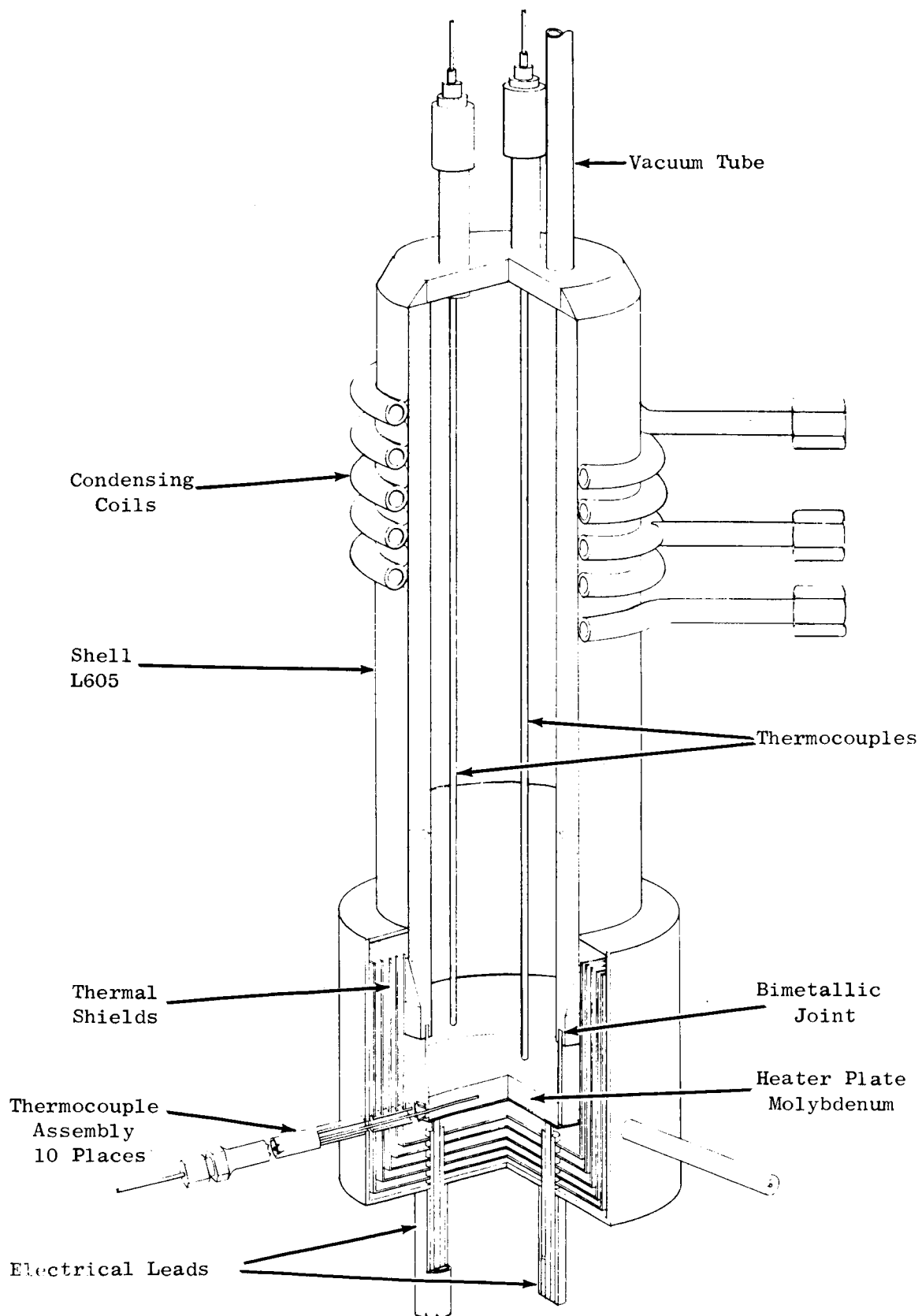


Figure 23. Pool Boiling Apparatus



Figure 24. Cross Section of Tantalum Rod from Pool Boiler Showing Center-burst Crack (approximately 50 diameters of magnification) The small spots are gray-colored oxide inclusions.

APPENDIX A

300 KW DATA

TABLE A-1. NOMENCLATURE FOR TABLE A-2

Column	S y m b o l	Reference Plane <sup>1</sup>	I d e n t i f i c a t i o n	
			Distance Junction to Reference Plane (inches)	Radial Location Peripheral Inches from North
609	PIT	Primary inlet	15.3	
612	PIT	temperature,		
614	PIT/I	<sup>o</sup> F		
617	POT	Primary	91.1	
620	POT	outlet		
622	POT/I	temperature, <sup>o</sup> F		
625	BP	1 Boiler	40.75	1.88
628		2 pin	40.75	4.38
631		3 temperature, <sup>o</sup> F	40.75	6.88
637		5	57.88	4.38
640		6	57.88	6.88
799		7	75.0	0.63
649		8	75.0	4.38
652	BW	1 Boiler	20.63	0.63
655		2 shell	22.75	3.13
658		3 wall	27.25	5.63
661		4 temperature, <sup>o</sup> F	28.13	0.01
664		5	28.13	0.88
667		6	28.13	1.88
670		7	28.13	2.88
673		8	28.13	3.63
676		9	28.13	4.63
679		10	28.13	5.5
682		11	28.13	6.63
688		13	30.75	3.13
691		14	33.13	5.63
694		15	35.38	0.63
697		16	37.5	3.13
700		17	39.88	5.63
703		18	42.13	0.63
706		19	44.25	3.13
709		20	46.63	5.63
712		21	49.0	0.63

<sup>1</sup>Reference B designated in Figure 15, "Alkali Metals Boiling and Condensing Investigations," Qtr. 4, Ctr. NAS 3-2528, SPPS, MSD, General Electric Co., April 1963 - June 1963.

Column	S y m b o l	Reference Plane	I d e n t i f i c a t i o n	
			Distance Junction to Reference Plane (Inches)	Radial Loca- tion Periph- eral Inches from North
718	BW 23	B	50	1.13
721	24	B	50	2.13
727	26	B	50	4.0
730	27	B	50	4.88
733	28	B	50	5.75
736	29	B	51	3.13
742	31	B	55.63	0.63
745	32	B	57.75	3.13
748	33	B	60.01	5.63
754	35	B	64.5	3.13
757	36	B	66.19	0.5
760	37	B	66.19	1.75
763	38	B	66.19	2.75
766	39	B	66.19	3.75
769	40	B	66.19	4.75
772	41	B	66.19	5.25
775	42	B	66.19	6.0
778	43	B	66.19	7.13
781	44	B	66.88	5.63
784	45	B	69.25	0.63
787	46	B	71.25	3.13
790	47	B	73.5	5.63
802	50	B	76.0	0.63
808	52	B	80.25	5.63
811	53	B	82.75	0.63
814	54	B	84.75	3.13
817	55	B	86.0	0.5
820	56	B	86.0	1.5
823	57	B	86.0	2.38
829	59	B	86.0	4.25
643	60	B	86.0	5.25
646	61	B	86.0	6.13
398	62	B	86.0	7.13
832	63	B	87.13	5.63
838	65	B	93.25	3.13
841	PFST		Primary flow stream temperature, °F	
845	PFMT		Primary flow magnet temperature, °F	
848	PFLO-R		Primary flow-Rubicon, lbs/sec	
851	SIT/I	Secondary	B	111.6
854	SIT	inlet		
857	SIT	temperature, °F		
862	SOT	Secondary outlet	B	5.4
865	SOT	temperature, °F		
598	SOT-D	Secondary outlet	B	10.75
		temp. at discharge		
		of boiler, °F		
868	SOT/IS	Secondary outlet	B	5.4
		temp. special probe, °F		

Column	Symbol	I d e n t i f i c a t i o n
871, 877	VCSIT	Vertical condenser secondary inlet temperature, °F
880, 883, 886	VCSOT	Vertical condenser secondary outlet temperature, °F
889, 892	HCSOT	Horizontal condenser secondary outlet temp., °F
895	SFST	Secondary flow stream temperature, °F
899	SFMT	Secondary flow magnetic temperature, °F
902	SFLO-R	Secondary flow-Rubicon, lbs/sec
906	PGTC-906	Secondary pump inlet pressure gage temperature, °F
909	PGTC-909	Secondary pump outlet pressure gage temperature, °F
912	PGTC-912	Secondary side boiler inlet pressure gage temp., °F
915	PGTC-915	Secondary side boiler outlet pressure gage temp., °F
916	SPIP	Secondary pump inlet pressure, in.Hg gage
917	SPOP	Secondary pump outlet pressure, in.Hg gage
918	BIP	Secondary side boiler inlet pressure, in.Hg gage
919	BOP	Secondary side boiler outlet pressure, in Hg gage
922, 925	VCAIT	Vertical condenser air inlet temperature, °F
928 thru 931	VCAOT	Vertical condenser air outlet temperature, °F
946, 949, 952, 955	VCAT	Vertical condenser air temperature, °F
961 thru 979	VCWT	Vertical condenser secondary tube wall temp., °F
982	VCWO	Vertical condenser shell wall upper temp., °F
985	VCWI	Vertical condenser shell wall lower temp., °F
988, 991	HCAOT	Horizontal condenser air outlet temperature, °F
1042, 1048	HCAOTU	Horizontal condenser air outlet temp. downstream, °F
944, 997	HCIAT	Horizontal condenser air temperature, °F



Column	Symbol	I d e n t i f i c a t i o n
1000 thru 1063	HCAT	Horizontal condenser air temperature, °F
1066	HCWO	Horizontal condenser shell temperature outlet, °F
1069	HCWI	Horizontal condenser shell temperature inlet, °F
1078	PBARO	Barometric pressure, lbs/in <sup>2</sup> absolute
1086	WAIR	Air flow rate, lbs/sec
1095	QAIR	Heat accepted by air, Btu/sec
1099	QPRI	Heat given up by primary fluid, Btu/sec

TABLE A-2. DATA TAKEN DURING THE PERIOD MAY 10, 1963 TO JUNE 28, 1963

## 300KW TRANSIENT DATA

	401	402	609	612	614	617
	DATE	TIME	PIT	PIT	PIT/I	POT
1	5.1063+00	2.3400+03	1.5554+03	1.5562+03	1.5541+03	1.5175+03
2	5.1163+00	3.0000+01	1.5776+03	1.5789+03	1.5758+03	1.5352+03
3	5.1163+00	2.0200+02	1.5576+03	1.5578+03	1.5549+03	1.5209+03
4	5.1163+00	5.0200+02	1.4788+03	1.4795+03	1.4777+03	1.4489+03
5	5.1163+00	5.3000+02	1.4512+03	1.4518+03	1.4499+03	1.4107+03
6	5.1163+00	2.3370+03	1.7602+03	1.7615+03	1.7506+03	1.6950+03
7	5.1963+00	2.0160+03	8.3200+02	8.3107+02	8.2717+02	8.2846+02
8	5.1963+00	2.0460+03	8.8144+02	8.8181+02	8.7791+02	8.7885+02
9	5.1963+00	2.1470+03	9.9015+02	9.8996+02	9.8632+02	9.8743+02
10	5.1963+00	2.2430+03	1.1665+03	1.1661+03	1.1626+03	1.1578+03
11	5.1963+00	2.3450+03	1.3150+03	1.3153+03	1.3105+03	1.2961+03
12	5.2063+00	2.3000+01	1.3722+03	1.3727+03	1.3656+03	1.3499+03
13	5.2063+00	1.0300+02	1.4120+03	1.4126+03	1.4030+03	1.3769+03
14	5.2063+00	1.4600+02	1.4636+03	1.4638+03	1.4528+03	1.4308+03
15	5.2063+00	6.4500+02	1.4260+03	1.4272+03	1.4244+03	1.4061+03
16	5.2163+00	1.4250+03	8.7934+02	8.7916+02	8.7513+02	8.7694+02
17	5.2163+00	1.4550+03	9.2705+02	9.2760+02	9.2271+02	9.2358+02
18	5.2163+00	1.5300+03	1.0543+03	1.0545+03	1.0485+03	1.0487+03
19	5.2163+00	1.6100+03	1.1275+03	1.1287+03	1.1201+03	1.1220+03
20	5.2163+00	1.6350+03	1.2063+03	1.2063+03	1.1980+03	1.1998+03
21	5.2163+00	1.7050+03	1.2628+03	1.2628+03	1.2539+03	1.2545+03
22	5.2163+00	1.7350+03	1.3281+03	1.3282+03	1.3193+03	1.3161+03
23	5.2163+00	1.8020+03	1.3902+03	1.3902+03	1.3810+03	1.3772+03
24	5.2163+00	1.8310+03	1.4892+03	1.4893+03	1.4798+03	1.4728+03
25	5.2163+00	1.9020+03	1.5546+03	1.5551+03	1.5451+03	1.5470+03
26	5.2163+00	2.0000+03	1.6022+03	1.6027+03	1.5925+03	1.5877+03
27	5.2163+00	2.2110+03	1.4263+03	1.4267+03	1.4242+03	1.4166+03
28	5.2163+00	2.2410+03	1.5169+03	1.5174+03	1.5170+03	1.5046+03
29	5.2163+00	2.3120+03	1.5882+03	1.5885+03	1.5881+03	1.5744+03
30	5.2263+00	1.0000+01	1.6393+03	1.6405+03	1.6363+03	1.6160+03
31	5.2263+00	2.7000+01	1.6778+03	1.6778+03	1.6739+03	1.6508+03
32	5.2263+00	5.2000+01	1.7187+03	1.7198+03	1.7144+03	1.6921+03
33	5.2263+00	1.1400+02	1.7439+03	1.7451+03	1.7377+03	1.7128+03
34	5.2263+00	1.3000+02	1.7568+03	1.7581+03	1.7501+03	1.7254+03
35	5.2263+00	1.5100+02	1.7712+03	1.7723+03	1.7633+03	1.7370+03
36	5.2263+00	2.1600+02	1.8075+03	1.8086+03	1.7993+03	1.7735+03
37	5.2263+00	2.3500+02	1.8396+03	1.8407+03	1.8306+03	1.8047+03
38	5.2263+00	4.0400+02	1.8535+03	1.8550+03	1.8448+03	1.8175+03
39	5.2263+00	4.2000+02	1.8526+03	1.8539+03	1.8444+03	1.8182+03
40	5.2263+00	5.0300+02	1.8023+03	1.8034+03	1.7971+03	1.7530+03

## 300KW TRANSIENT DATA

	620	622	625	628	631	637
	POT	POT/I	BP 1	BP 2	BP 3	BP 5
1	1.5174+03	1.5167+03	1.5156+03	1.5196+03	1.5130+03	1.4898+03
2	1.5349+03	1.5332+03	1.5296+03	1.5329+03	1.5332+03	1.5146+03
3	1.5213+03	1.5200+03	1.5202+03	1.5226+03	1.5193+03	1.5036+03
4	1.4486+03	1.4499+03	1.4517+03	1.4526+03	1.4477+03	1.4345+03
5	1.4106+03	1.4119+03	1.4144+03	1.4146+03	1.4190+03	1.4093+03
6	1.6944+03	1.6881+03	1.6938+03	1.6956+03	1.7158+03	1.6865+03
7	8.2846+02	8.2568+02	8.2159+02	8.1787+02	8.1693+02	8.4651+02
8	8.7811+02	8.7550+02	8.7154+02	8.6731+02	8.6583+02	8.8892+02
9	9.8653+02	9.8505+02	9.7960+02	9.7671+02	9.7363+02	9.8503+02
10	1.1567+03	1.1552+03	1.1503+03	1.1488+03	1.1428+03	1.1296+03
11	1.2951+03	1.2922+03	1.2866+03	1.2883+03	1.2846+03	1.2691+03
12	1.3492+03	1.3438+03	1.3383+03	1.3392+03	1.3402+03	1.3223+03
13	1.3759+03	1.3687+03	1.3668+03	1.3658+03	1.3791+03	1.3619+03
14	1.4303+03	1.4229+03	1.4411+03	1.4418+03	1.4373+03	1.4139+03
15	1.4070+03	1.4050+03	1.4045+03	1.4050+03	1.4008+03	1.3941+03
16	8.7657+02	8.7310+02	8.6789+02	8.6385+02	8.6274+02	8.7730+02
17	9.2211+02	9.1832+02	9.1880+02	9.1532+02	9.1148+02	9.1624+02
18	1.0486+03	1.0431+03	1.0438+03	1.0409+03	1.0356+03	1.0315+03
19	1.1212+03	1.1148+03	1.1153+03	1.1130+03	1.1079+03	1.1043+03
20	1.1982+03	1.1912+03	1.1929+03	1.1913+03	1.1854+03	1.1732+03
21	1.2537+03	1.2460+03	1.2459+03	1.2439+03	1.2404+03	1.2271+03
22	1.3154+03	1.3071+03	1.3092+03	1.3099+03	1.3019+03	1.2826+03
23	1.3765+03	1.3678+03	1.3697+03	1.3702+03	1.3629+03	1.3383+03
24	1.4721+03	1.4629+03	1.4645+03	1.4657+03	1.4579+03	1.4215+03
25	1.5465+03	1.5378+03	1.5335+03	1.5352+03	1.5256+03	1.4919+03
26	1.5872+03	1.5789+03	1.5744+03	1.5765+03	1.5697+03	1.5373+03
27	1.4163+03	1.4159+03	1.3995+03	1.4000+03	1.3949+03	1.3717+03
28	1.5041+03	1.5055+03	1.4896+03	1.4908+03	1.4840+03	1.4485+03
29	1.5739+03	1.5756+03	1.5596+03	1.5615+03	1.5535+03	1.5148+03
30	1.6158+03	1.6143+03	1.6007+03	1.6025+03	1.6038+03	1.5654+03
31	1.6499+03	1.6487+03	1.6360+03	1.6382+03	1.6405+03	1.5993+03
32	1.6913+03	1.6886+03	1.6774+03	1.6798+03	1.6822+03	1.6393+03
33	1.7120+03	1.7082+03	1.6974+03	1.7006+03	1.7060+03	1.6634+03
34	1.7254+03	1.7198+03	1.7096+03	1.7103+03	1.7247+03	1.6809+03
35	1.7360+03	1.7299+03	1.7271+03	1.7271+03	1.7399+03	1.6958+03
36	1.7731+03	1.7665+03	1.7614+03	1.7636+03	1.7720+03	1.7242+03
37	1.8041+03	1.7965+03	1.7944+03	1.7958+03	1.8058+03	1.7557+03
38	1.8177+03	1.8109+03	1.8262+03	1.8281+03	1.8232+03	1.7793+03
39	1.8176+03	1.8117+03	1.8246+03	1.8276+03	1.8213+03	1.7777+03
40	1.7533+03	1.7498+03	1.7624+03	1.7613+03	1.7705+03	1.7369+03

## 300KW TRANSIENT DATA

	640	799	649	652	655	658
	BP 6	BP 7	BP 8	BW 1	BW 2	BW 3
1	1.5224+03	1.5135+03	1.5209+03	1.5523+03	1.5559+03	1.5553+03
2	1.5358+03	1.5278+03	1.5376+03	1.5751+03	1.5785+03	1.5770+03
3	1.5238+03	1.5182+03	1.5309+03	1.5542+03	1.5580+03	1.5568+03
4	1.4537+03	1.4501+03	1.4537+03	1.4761+03	1.4788+03	1.4783+03
5	1.4201+03	1.4164+03	1.4185+03	1.4485+03	1.4510+03	1.4507+03
6	1.6940+03	1.7049+03	1.7100+03	1.7550+03	1.7594+03	1.7571+03
7	8.1600+02	8.1805+02	8.1394+02	8.3293+02	8.3330+02	8.3274+02
8	8.6749+02	8.6823+02	8.6436+02	8.8311+02	8.8366+02	8.8292+02
9	9.7472+02	9.7635+02	9.7399+02	9.9105+02	9.9196+02	9.9141+02
10	1.1470+03	1.1463+03	1.1491+03	1.1654+03	1.1679+03	1.1667+03
11	1.2810+03	1.2837+03	1.2883+03	1.3136+03	1.3165+03	1.3141+03
12	1.3259+03	1.3356+03	1.3402+03	1.3708+03	1.3734+03	1.3717+03
13	1.3509+03	1.3693+03	1.3700+03	1.4103+03	1.4133+03	1.4118+03
14	1.4237+03	1.4408+03	1.4454+03	1.4610+03	1.4644+03	1.4633+03
15	1.4028+03	1.4033+03	1.4061+03	1.4252+03	1.4274+03	1.4265+03
16	8.5557+02	8.6403+02	8.5943+02	8.7953+02	8.8008+02	8.7860+02
17	9.0965+02	9.1477+02	9.1294+02	9.2925+02	9.2925+02	9.2925+02
18	1.0316+03	1.0395+03	1.0388+03	1.0548+03	1.0559+03	1.0555+03
19	1.0990+03	1.1121+03	1.1119+03	1.1271+03	1.1287+03	1.1284+03
20	1.1752+03	1.1898+03	1.1912+03	1.2047+03	1.2066+03	1.2066+03
21	1.2254+03	1.2430+03	1.2432+03	1.2614+03	1.2635+03	1.2626+03
22	1.2912+03	1.3063+03	1.3096+03	1.3260+03	1.3284+03	1.3269+03
23	1.3521+03	1.3668+03	1.3710+03	1.3881+03	1.3903+03	1.3891+03
24	1.4464+03	1.4618+03	1.4680+03	1.4865+03	1.4893+03	1.4874+03
25	1.5136+03	1.5314+03	1.5374+03	1.5524+03	1.5557+03	1.5546+03
26	1.5556+03	1.5721+03	1.5787+03	1.5999+03	1.6032+03	1.6012+03
27	1.4008+03	1.3974+03	1.4003+03	1.4240+03	1.4258+03	1.4252+03
28	1.4984+03	1.4880+03	1.4936+03	1.5144+03	1.5162+03	1.5156+03
29	1.5664+03	1.5581+03	1.5653+03	1.5856+03	1.5884+03	1.5872+03
30	1.5971+03	1.6034+03	1.6063+03	1.6371+03	1.6398+03	1.6388+03
31	1.6344+03	1.6399+03	1.6456+03	1.6746+03	1.6775+03	1.6762+03
32	1.6727+03	1.6810+03	1.6871+03	1.7163+03	1.7196+03	1.7180+03
33	1.6897+03	1.7022+03	1.7086+03	1.7415+03	1.7445+03	1.7429+03
34	1.7056+03	1.7205+03	1.7281+03	1.7554+03	1.7589+03	1.7576+03
35	1.7222+03	1.7402+03	1.7448+03	1.7698+03	1.7728+03	1.7725+03
36	1.7517+03	1.7695+03	1.7761+03	1.8061+03	1.8088+03	1.8078+03
37	1.7829+03	1.8042+03	1.8096+03	1.8377+03	1.8408+03	1.8410+03
38	1.8112+03	1.8278+03	1.8365+03	1.8516+03	1.8550+03	1.8544+03
39	1.8124+03	1.8257+03	1.8348+03	1.8506+03	1.8543+03	1.8533+03
40	1.7644+03	1.7723+03	1.7786+03	1.8006+03	1.8047+03	1.8020+03

## 300KW TRANSIENT DATA

	661	664	667	670	673	676
	BW 4	BW 5	BW 6	BW 7	BW 8	BW 9
1	1.5558+03	1.5527+03	1.5530+03	1.5599+03	1.5586+03	1.5589+03
2	1.5772+03	1.5756+03	1.5760+03	1.5829+03	1.5815+03	1.5818+03
3	1.5575+03	1.5546+03	1.5552+03	1.5626+03	1.5611+03	1.5620+03
4	1.4786+03	1.4765+03	1.4771+03	1.4841+03	1.4828+03	1.4833+03
5	1.4510+03	1.4488+03	1.4488+03	1.4563+03	1.4550+03	1.4558+03
6	1.7572+03	1.7551+03	1.7561+03	1.7628+03	1.7622+03	1.7614+03
7	8.3311+02	8.3293+02	8.3368+02	8.3963+02	8.3981+02	8.3888+02
8	8.8385+02	8.8300+02	8.8355+02	8.9077+02	8.8966+02	8.8892+02
9	9.9177+02	9.9264+02	9.9354+02	1.0002+03	9.9951+02	9.9879+02
10	1.1680+03	1.1683+03	1.1685+03	1.1753+03	1.1744+03	1.1741+03
11	1.3151+03	1.3166+03	1.3168+03	1.3238+03	1.3231+03	1.3217+03
12	1.3725+03	1.3738+03	1.3742+03	1.3808+03	1.3804+03	1.3792+03
13	1.4123+03	1.4134+03	1.4144+03	1.4214+03	1.4200+03	1.4199+03
14	1.4643+03	1.4641+03	1.4649+03	1.4720+03	1.4710+03	1.4712+03
15	1.4267+03	1.4250+03	1.4252+03	1.4325+03	1.4315+03	1.4324+03
16	8.7860+02	8.7860+02	8.7934+02	8.8581+02	8.8563+02	8.8470+02
17	9.3071+02	9.3088+02	9.3161+02	9.3783+02	9.3783+02	9.3710+02
18	1.0568+03	1.0574+03	1.0574+03	1.0642+03	1.0638+03	1.0631+03
19	1.1294+03	1.1297+03	1.1300+03	1.1373+03	1.1373+03	1.1366+03
20	1.2075+03	1.2086+03	1.2089+03	1.2157+03	1.2157+03	1.2157+03
21	1.2631+03	1.2645+03	1.2649+03	1.2718+03	1.2718+03	1.2712+03
22	1.3277+03	1.3295+03	1.3302+03	1.3365+03	1.3363+03	1.3360+03
23	1.3903+03	1.3914+03	1.3918+03	1.3987+03	1.3982+03	1.3983+03
24	1.4887+03	1.4904+03	1.4905+03	1.4970+03	1.4970+03	1.4968+03
25	1.5544+03	1.5554+03	1.5562+03	1.5625+03	1.5623+03	1.5625+03
26	1.6019+03	1.6027+03	1.6031+03	1.6098+03	1.6091+03	1.6096+03
27	1.4260+03	1.4228+03	1.4233+03	1.4300+03	1.4297+03	1.4300+03
28	1.5174+03	1.5148+03	1.5148+03	1.5215+03	1.5210+03	1.5212+03
29	1.5882+03	1.5865+03	1.5870+03	1.5939+03	1.5927+03	1.5931+03
30	1.6392+03	1.6384+03	1.6389+03	1.6458+03	1.6450+03	1.6450+03
31	1.6776+03	1.6773+03	1.6774+03	1.6844+03	1.6835+03	1.6835+03
32	1.7193+03	1.7189+03	1.7193+03	1.7257+03	1.7253+03	1.7254+03
33	1.7439+03	1.7438+03	1.7447+03	1.7513+03	1.7501+03	1.7502+03
34	1.7585+03	1.7581+03	1.7587+03	1.7653+03	1.7650+03	1.7652+03
35	1.7731+03	1.7725+03	1.7730+03	1.7793+03	1.7788+03	1.7796+03
36	1.8094+03	1.8090+03	1.8095+03	1.8162+03	1.8156+03	1.8158+03
37	1.8416+03	1.8410+03	1.8414+03	1.8480+03	1.8475+03	1.8478+03
38	1.8556+03	1.8545+03	1.8543+03	1.8608+03	1.8605+03	1.8615+03
39	1.8545+03	1.8532+03	1.8534+03	1.8600+03	1.8594+03	1.8596+03
40	1.8027+03	1.7998+03	1.7999+03	1.8063+03	1.8060+03	1.8068+03

# 300KW TRANSIENT DATA

	679	682	688	691	694	697
	BW 10	BW 11	BW 13	BW 14	BW 15	BW 16
1	1.5594+03	1.5560+03	1.5515+03	1.5492+03	1.5459+03	1.5485+03
2	1.5820+03	1.5790+03	1.5733+03	1.5689+03	1.5679+03	1.5695+03
3	1.5625+03	1.5605+03	1.5539+03	1.5524+03	1.5498+03	1.5530+03
4	1.4838+03	1.4825+03	1.4761+03	1.4776+03	1.4745+03	1.4768+03
5	1.4567+03	1.4553+03	1.4483+03	1.4485+03	1.4460+03	1.4473+03
6	1.7622+03	1.7610+03	1.7544+03	1.7519+03	1.7478+03	1.7525+03
7	8.3981+02	8.4000+02	8.3534+02	8.3311+02	8.3274+02	8.3255+02
8	8.9058+02	8.8984+02	8.8533+02	8.8311+02	8.8366+02	8.8218+02
9	1.0002+03	1.0002+03	9.9340+02	9.9141+02	9.9087+02	9.9141+02
10	1.1753+03	1.1735+03	1.1672+03	1.1649+03	1.1639+03	1.1658+03
11	1.3228+03	1.3217+03	1.3131+03	1.3099+03	1.3078+03	1.3104+03
12	1.3803+03	1.3794+03	1.3702+03	1.3675+03	1.3653+03	1.3685+03
13	1.4207+03	1.4204+03	1.4105+03	1.4101+03	1.4070+03	1.4095+03
14	1.4720+03	1.4715+03	1.4616+03	1.4626+03	1.4593+03	1.4631+03
15	1.4327+03	1.4317+03	1.4244+03	1.4260+03	1.4225+03	1.4257+03
16	8.8618+02	8.8581+02	8.8119+02	8.7879+02	8.7897+02	8.7805+02
17	9.3856+02	9.3838+02	9.3145+02	9.2943+02	9.2962+02	9.2943+02
18	1.0645+03	1.0642+03	1.0566+03	1.0555+03	1.0552+03	1.0555+03
19	1.1380+03	1.1373+03	1.1284+03	1.1282+03	1.1264+03	1.1279+03
20	1.2167+03	1.2164+03	1.2064+03	1.2066+03	1.2043+03	1.2063+03
21	1.2728+03	1.2719+03	1.2621+03	1.2628+03	1.2598+03	1.2628+03
22	1.3368+03	1.3353+03	1.3260+03	1.3255+03	1.3221+03	1.3262+03
23	1.3985+03	1.3970+03	1.3875+03	1.3878+03	1.3846+03	1.3881+03
24	1.4970+03	1.4968+03	1.4857+03	1.4846+03	1.4819+03	1.4855+03
25	1.5625+03	1.5621+03	1.5516+03	1.5536+03	1.5495+03	1.5541+03
26	1.6096+03	1.6091+03	1.5983+03	1.5986+03	1.5947+03	1.5991+03
27	1.4300+03	1.4292+03	1.4238+03	1.4240+03	1.4215+03	1.4235+03
28	1.5214+03	1.5205+03	1.5139+03	1.5141+03	1.5116+03	1.5148+03
29	1.5931+03	1.5923+03	1.5849+03	1.5844+03	1.5822+03	1.5859+03
30	1.6455+03	1.6444+03	1.6368+03	1.6363+03	1.6330+03	1.6372+03
31	1.6841+03	1.6832+03	1.6738+03	1.6736+03	1.6698+03	1.6751+03
32	1.7256+03	1.7253+03	1.7147+03	1.7157+03	1.7116+03	1.7168+03
33	1.7504+03	1.7498+03	1.7391+03	1.7397+03	1.7354+03	1.7405+03
34	1.3842+02	1.7659+03	1.7540+03	1.7563+03	1.7519+03	1.7573+03
35	1.7796+03	1.7794+03	1.7692+03	1.7719+03	1.7668+03	1.7720+03
36	1.8159+03	1.8155+03	1.8053+03	1.8064+03	1.8016+03	1.8072+03
37	1.8484+03	1.8483+03	1.8369+03	1.8400+03	1.8346+03	1.8399+03
38	1.8615+03	1.8610+03	1.8513+03	1.8549+03	1.8488+03	1.8539+03
39	1.8599+03	1.8593+03	1.8500+03	1.8534+03	1.8477+03	1.8533+03
40	1.8062+03	1.8059+03	1.7992+03	1.8023+03	1.7969+03	1.8019+03

## 300KW TRANSIENT DATA

	700	703	706	709	712	718
	BW 17	BW 18	BW 19	BW 20	BW 21	BW 23
1	1.5412+03	1.5427+03	1.5417+03	1.5368+03	1.5420+03	1.5455+03
2	1.5591+03	1.5625+03	1.5597+03	1.5515+03	1.5576+03	1.5608+03
3	1.5481+03	1.5480+03	1.5462+03	1.5445+03	1.5481+03	1.5538+03
4	1.4748+03	1.4741+03	1.4738+03	1.4735+03	1.4751+03	1.4781+03
5	1.4440+03	1.4440+03	1.4423+03	1.4396+03	1.4421+03	1.4472+03
6	1.7452+03	1.7454+03	1.7455+03	1.7389+03	1.7429+03	1.7449+03
7	8.3274+02	8.3441+02	8.3367+02	8.3088+02	8.3274+02	8.3907+02
8	8.8348+02	8.8477+02	8.8366+02	8.8181+02	8.8292+02	8.8966+02
9	9.9141+02	9.9214+02	9.9196+02	9.8978+02	9.9141+02	9.9933+02
10	1.1644+03	1.1649+03	1.1656+03	1.1630+03	1.1649+03	1.1732+03
11	1.3056+03	1.3068+03	1.3072+03	1.3010+03	1.3055+03	1.3130+03
12	1.3632+03	1.3642+03	1.3637+03	1.3568+03	1.3609+03	1.3676+03
13	1.4055+03	1.4055+03	1.4033+03	1.3979+03	1.4003+03	1.4057+03
14	1.4618+03	1.4596+03	1.4623+03	1.4598+03	1.4618+03	1.4695+03
15	1.4252+03	1.4227+03	1.4260+03	1.4235+03	1.4240+03	1.4307+03
16	8.7842+02	8.8027+02	8.7953+02	8.7712+02	8.7823+02	8.8563+02
17	9.2962+02	9.3071+02	9.2980+02	9.2833+02	9.2980+02	9.3801+02
18	1.0554+03	1.0557+03	1.0562+03	1.0546+03	1.0555+03	1.0640+03
19	1.1280+03	1.1277+03	1.1287+03	1.1271+03	1.1279+03	1.1369+03
20	1.2064+03	1.2052+03	1.2066+03	1.2059+03	1.2057+03	1.2155+03
21	1.2621+03	1.2610+03	1.2628+03	1.2610+03	1.2619+03	1.2709+03
22	1.3241+03	1.3229+03	1.3259+03	1.3228+03	1.3241+03	1.3340+03
23	1.3861+03	1.3851+03	1.3873+03	1.3849+03	1.3863+03	1.3956+03
24	1.4816+03	1.4806+03	1.4832+03	1.4797+03	1.4821+03	1.4917+03
25	1.5526+03	1.5501+03	1.5529+03	1.5516+03	1.5524+03	1.5600+03
26	1.5957+03	1.5939+03	1.5973+03	1.5921+03	1.5949+03	1.6036+03
27	1.4223+03	1.4208+03	1.4221+03	1.4195+03	1.4210+03	1.4257+03
28	1.5131+03	1.5120+03	1.5128+03	1.5113+03	1.5136+03	1.5169+03
29	1.5831+03	1.5818+03	1.5835+03	1.5802+03	1.5825+03	1.5879+03
30	1.6334+03	1.6322+03	1.6339+03	1.6293+03	1.6322+03	1.6383+03
31	1.6708+03	1.6701+03	1.6704+03	1.6668+03	1.6696+03	1.6755+03
32	1.7124+03	1.7106+03	1.7124+03	1.7076+03	1.7101+03	1.7161+03
33	1.7361+03	1.7342+03	1.7361+03	1.7307+03	1.7334+03	1.7390+03
34	1.7543+03	1.7514+03	1.7527+03	1.7487+03	1.7503+03	1.7587+03
35	1.7711+03	1.7681+03	1.7698+03	1.7689+03	1.7694+03	1.7755+03
36	1.8035+03	1.8010+03	1.8025+03	1.7985+03	1.8011+03	1.8063+03
37	1.8376+03	1.8352+03	1.8363+03	1.8333+03	1.8357+03	1.8418+03
38	1.8532+03	1.8502+03	1.8529+03	1.8519+03	1.8546+03	1.8599+03
39	1.8519+03	1.8495+03	1.8519+03	1.8506+03	1.8533+03	1.8583+03
40	1.8009+03	1.7977+03	1.8008+03	1.7989+03	1.8017+03	1.8038+03

# 300KW TRANSIENT DATA

	721	727	730	733	736	742
	BW 24	BW 26	BW 27	BW 28	BW 29	BW 31
1	1.5458+03	1.5440+03	1.5434+03	1.5406+03	1.5394+03	1.5371+03
2	1.5587+03	1.5576+03	1.5572+03	1.5530+03	1.5540+03	1.5504+03
3	1.5523+03	1.5497+03	1.5493+03	1.5458+03	1.5450+03	1.5428+03
4	1.4775+03	1.4770+03	1.4768+03	1.4756+03	1.4735+03	1.4718+03
5	1.4460+03	1.4453+03	1.4450+03	1.4447+03	1.4396+03	1.4370+03
6	1.7428+03	1.7431+03	1.7439+03	1.7396+03	1.7375+03	1.7314+03
7	8.3981+02	8.3907+02	8.4074+02	8.4056+02	8.3386+02	8.3423+02
8	8.8966+02	8.8947+02	8.9077+02	8.9132+02	8.8403+02	8.8366+02
9	9.9933+02	9.9915+02	1.0004+03	1.0006+03	9.9196+02	9.9159+02
10	1.1728+03	1.1721+03	1.1728+03	1.1723+03	1.1642+03	1.1635+03
11	1.3129+03	1.3132+03	1.3122+03	1.3103+03	1.3038+03	1.3021+03
12	1.3659+03	1.3662+03	1.3662+03	1.3637+03	1.3578+03	1.3548+03
13	1.4032+03	1.4020+03	1.4033+03	1.4013+03	1.3949+03	1.3914+03
14	1.4694+03	1.4692+03	1.4702+03	1.4699+03	1.4595+03	1.4576+03
15	1.4304+03	1.4304+03	1.4305+03	1.4307+03	1.4235+03	1.4215+03
16	8.8563+02	8.8489+02	8.8674+02	8.8618+02	8.7934+02	8.7916+02
17	9.3783+02	9.3710+02	9.3820+02	9.3838+02	9.3053+02	9.3016+02
18	1.0638+03	1.0634+03	1.0642+03	1.0649+03	1.0555+03	1.0550+03
19	1.1367+03	1.1362+03	1.1374+03	1.1374+03	1.1273+03	1.1264+03
20	1.2155+03	1.2152+03	1.2162+03	1.2160+03	1.2050+03	1.2042+03
21	1.2704+03	1.2697+03	1.2707+03	1.2693+03	1.2609+03	1.2598+03
22	1.3341+03	1.3338+03	1.3345+03	1.3331+03	1.3233+03	1.3216+03
23	1.3956+03	1.3951+03	1.3956+03	1.3943+03	1.3849+03	1.3833+03
24	1.4917+03	1.4920+03	1.4923+03	1.4910+03	1.4802+03	1.4783+03
25	1.5598+03	1.5603+03	1.5605+03	1.5598+03	1.5500+03	1.5483+03
26	1.6028+03	1.6025+03	1.6023+03	1.6009+03	1.5929+03	1.5898+03
27	1.4244+03	1.4230+03	1.4237+03	1.4235+03	1.4193+03	1.4180+03
28	1.5158+03	1.5149+03	1.5151+03	1.5154+03	1.5112+03	1.5113+03
29	1.5869+03	1.5861+03	1.5861+03	1.5857+03	1.5799+03	1.5781+03
30	1.6373+03	1.6357+03	1.6352+03	1.6359+03	1.6276+03	1.6248+03
31	1.6742+03	1.6726+03	1.6733+03	1.6725+03	1.6650+03	1.6623+03
32	1.7142+03	1.7148+03	1.7148+03	1.7134+03	1.7060+03	1.7021+03
33	1.7372+03	1.7379+03	1.7380+03	1.7358+03	1.7289+03	1.7253+03
34	1.7552+03	1.7556+03	1.7562+03	1.7570+03	1.7442+03	1.7397+03
35	1.7745+03	1.7738+03	1.7752+03	1.7752+03	1.7646+03	1.7609+03
36	1.8046+03	1.8045+03	1.8051+03	1.8037+03	1.7960+03	1.7918+03
37	1.8396+03	1.8387+03	1.8397+03	1.8399+03	1.8302+03	1.8260+03
38	1.8591+03	1.8593+03	1.8588+03	1.8594+03	1.8507+03	1.8474+03
39	1.8577+03	1.8572+03	1.8577+03	1.8576+03	1.8498+03	1.8467+03
40	1.8038+03	1.8035+03	1.8038+03	1.8038+03	1.7986+03	1.7953+03



## 300KW TRANSIENT DATA

	745	748	754	757	760	763
	BW 32	BW 33	BW 35	BW 36	BW 37	BW 38
1	1.5389+03	1.5349+03	1.5397+03	1.5439+03	1.5458+03	1.5452+03
2	1.5520+03	1.5463+03	1.5529+03	1.5561+03	1.5577+03	1.5574+03
3	1.5434+03	1.5401+03	1.5450+03	1.5479+03	1.5500+03	1.5493+03
4	1.4725+03	1.4713+03	1.4740+03	1.4763+03	1.4776+03	1.4775+03
5	1.4366+03	1.4340+03	1.4361+03	1.4418+03	1.4417+03	1.4410+03
6	1.7311+03	1.7252+03	1.7289+03	1.7336+03	1.7280+03	1.7310+03
7	8.3367+02	8.3255+02	8.3069+02	8.3907+02	8.4019+02	8.4037+02
8	8.8440+02	8.8292+02	8.8181+02	8.9003+02	8.9132+02	8.9021+02
9	9.9105+02	9.9087+02	9.8960+02	9.9879+02	1.0004+03	9.9988+02
10	1.1644+03	1.1628+03	1.1635+03	1.1723+03	1.1742+03	1.1730+03
11	1.3034+03	1.2997+03	1.3036+03	1.3112+03	1.3129+03	1.3132+03
12	1.3556+03	1.3511+03	1.3555+03	1.3635+03	1.3642+03	1.3647+03
13	1.3894+03	1.3858+03	1.3855+03	1.3955+03	1.3918+03	1.3933+03
14	1.4585+03	1.4573+03	1.4598+03	1.4685+03	1.4689+03	1.4685+03
15	1.4227+03	1.4210+03	1.4242+03	1.4292+03	1.4304+03	1.4302+03
16	8.7934+02	8.7860+02	8.7712+02	8.8581+02	8.8618+02	8.8618+02
17	9.3016+02	9.2907+02	9.2815+02	9.3820+02	9.3875+02	9.3838+02
18	1.0554+03	1.0548+03	1.0541+03	1.0642+03	1.0643+03	1.0645+03
19	1.1273+03	1.1264+03	1.1266+03	1.1371+03	1.1373+03	1.1371+03
20	1.2052+03	1.2047+03	1.2049+03	1.2152+03	1.2160+03	1.2164+03
21	1.2602+03	1.2597+03	1.2605+03	1.2687+03	1.2688+03	1.2690+03
22	1.3226+03	1.3214+03	1.3238+03	1.3340+03	1.3346+03	1.3345+03
23	1.3844+03	1.3833+03	1.3853+03	1.3951+03	1.3956+03	1.3958+03
24	1.4799+03	1.4778+03	1.4812+03	1.4910+03	1.4915+03	1.4917+03
25	1.5495+03	1.5490+03	1.5516+03	1.5600+03	1.5610+03	1.5605+03
26	1.5918+03	1.5887+03	1.5938+03	1.6017+03	1.6020+03	1.6023+03
27	1.4185+03	1.4173+03	1.4186+03	1.4233+03	1.4235+03	1.4232+03
28	1.5115+03	1.5110+03	1.5121+03	1.5149+03	1.5154+03	1.5153+03
29	1.5789+03	1.5776+03	1.5807+03	1.5865+03	1.5867+03	1.5867+03
30	1.6234+03	1.6211+03	1.6223+03	1.6315+03	1.6288+03	1.6293+03
31	1.6613+03	1.6587+03	1.6602+03	1.6696+03	1.6654+03	1.6675+03
32	1.7023+03	1.6991+03	1.7026+03	1.7106+03	1.7070+03	1.7091+03
33	1.7246+03	1.7207+03	1.7239+03	1.7322+03	1.7280+03	1.7299+03
34	1.7386+03	1.7357+03	1.7364+03	1.7488+03	1.7394+03	1.7423+03
35	1.7604+03	1.7591+03	1.7585+03	1.7678+03	1.7599+03	1.7629+03
36	1.7916+03	1.7883+03	1.7907+03	1.7995+03	1.7939+03	1.7973+03
37	1.8249+03	1.8235+03	1.8249+03	1.8338+03	1.8271+03	1.8295+03
38	1.8477+03	1.8482+03	1.8511+03	1.8585+03	1.8579+03	1.8579+03
39	1.8466+03	1.8466+03	1.8502+03	1.8569+03	1.8557+03	1.8565+03
40	1.7952+03	1.7956+03	1.7972+03	1.8013+03	1.7960+03	1.7984+03

# 300KW TRANSIENT DATA

	766	769	772	775	778	781
	BW 39	BW 40	BW 41	BW 42	BW 43	BW 44
1	1.5434+03	1.5439+03	1.5414+03	1.5409+03	1.5421+03	1.5362+03
2	1.5567+03	1.5572+03	1.5544+03	1.5530+03	1.5543+03	1.5479+03
3	1.5480+03	1.5480+03	1.5453+03	1.5427+03	1.5474+03	1.5403+03
4	1.4770+03	1.4778+03	1.4766+03	1.4753+03	1.4753+03	1.4723+03
5	1.4405+03	1.4403+03	1.4410+03	1.4388+03	1.4398+03	1.4331+03
6	1.7312+03	1.7306+03	1.7315+03	1.7255+03	1.7283+03	1.7202+03
7	8.3777+02	8.4167+02	8.4019+02	8.3833+02	8.3944+02	8.3367+02
8	8.8910+02	8.9151+02	8.9077+02	8.8910+02	8.8929+02	8.8385+02
9	9.9789+02	1.0015+03	9.9933+02	9.9933+02	9.9933+02	9.9159+02
10	1.1718+03	1.1735+03	1.1721+03	1.1708+03	1.1715+03	1.1630+03
11	1.3115+03	1.3137+03	1.3100+03	1.3089+03	1.3105+03	1.3004+03
12	1.3628+03	1.3650+03	1.3622+03	1.3601+03	1.3622+03	1.3516+03
13	1.3926+03	1.3939+03	1.3936+03	1.3887+03	1.3926+03	1.3825+03
14	1.4687+03	1.4699+03	1.4690+03	1.4674+03	1.4666+03	1.4571+03
15	1.4295+03	1.4307+03	1.4297+03	1.4278+03	1.4282+03	1.4205+03
16	8.8452+02	8.8711+02	8.8637+02	8.8470+02	8.8526+02	8.7953+02
17	9.3655+02	9.3984+02	9.3820+02	9.3710+02	9.3747+02	9.3035+02
18	1.0627+03	1.0654+03	1.0642+03	1.0631+03	1.0634+03	1.0559+03
19	1.1360+03	1.1383+03	1.1371+03	1.1364+03	1.1367+03	1.1273+03
20	1.2148+03	1.2174+03	1.2159+03	1.2150+03	1.2154+03	1.2054+03
21	1.2680+03	1.2697+03	1.2678+03	1.2652+03	1.2681+03	1.2607+03
22	1.3330+03	1.3348+03	1.3333+03	1.3319+03	1.3328+03	1.3224+03
23	1.3946+03	1.3963+03	1.3948+03	1.3931+03	1.3946+03	1.3838+03
24	1.4910+03	1.4933+03	1.4907+03	1.4894+03	1.4902+03	1.4784+03
25	1.5602+03	1.5625+03	1.5603+03	1.5598+03	1.5595+03	1.5492+03
26	1.6025+03	1.6038+03	1.6017+03	1.6007+03	1.6002+03	1.5894+03
27	1.4217+03	1.4225+03	1.4218+03	1.4210+03	1.4227+03	1.4173+03
28	1.5141+03	1.5156+03	1.5143+03	1.5133+03	1.5141+03	1.5090+03
29	1.5857+03	1.5872+03	1.5856+03	1.5851+03	1.5851+03	1.5771+03
30	1.6277+03	1.6285+03	1.6288+03	1.6264+03	1.6278+03	1.6184+03
31	1.6656+03	1.6662+03	1.6674+03	1.6632+03	1.6662+03	1.6547+03
32	1.7077+03	1.7091+03	1.7082+03	1.7048+03	1.7069+03	1.6953+03
33	1.7299+03	1.7301+03	1.7299+03	1.7256+03	1.7277+03	1.7167+03
34	1.7426+03	1.7418+03	1.7459+03	1.7407+03	1.7417+03	1.7291+03
35	1.7629+03	1.7631+03	1.7667+03	1.7607+03	1.7629+03	1.7514+03
36	1.7959+03	1.7968+03	1.7973+03	1.7929+03	1.7960+03	1.7834+03
37	1.8296+03	1.8293+03	1.8321+03	1.8281+03	1.8296+03	1.8176+03
38	1.8577+03	1.8597+03	1.8580+03	1.8566+03	1.8574+03	1.8462+03
39	1.8559+03	1.8574+03	1.8559+03	1.8545+03	1.8552+03	1.8446+03
40	1.7982+03	1.7974+03	1.8004+03	1.7970+03	1.7984+03	1.7922+03

## 300KW TRANSIENT DATA

	784	787	790	802	808	811
	BW 45	BW 46	BW 47	BW 50	BW 52	BW 53
1	1.5362+03	1.5393+03	1.5334+03	1.5378+03	1.5349+03	1.5353+03
2	1.5488+03	1.5524+03	1.5457+03	1.5504+03	1.5473+03	1.5483+03
3	1.5400+03	1.5434+03	1.5372+03	1.5411+03	1.5382+03	1.5385+03
4	1.4698+03	1.4731+03	1.4692+03	1.4715+03	1.4698+03	1.4693+03
5	1.4318+03	1.4335+03	1.4301+03	1.4330+03	1.4301+03	1.4305+03
6	1.7208+03	1.7227+03	1.7148+03	1.7189+03	1.7121+03	1.7113+03
7	8.3200+02	8.3237+02	8.3274+02	8.3423+02	8.3386+02	8.3404+02
8	8.8237+02	8.8311+02	8.8255+02	8.8422+02	8.8385+02	8.8459+02
9	9.8978+02	9.9069+02	9.9069+02	9.9141+02	9.9141+02	9.9177+02
10	1.1623+03	1.1642+03	1.1616+03	1.1644+03	1.1628+03	1.1644+03
11	1.3004+03	1.3036+03	1.2987+03	1.3024+03	1.2998+03	1.3017+03
12	1.3519+03	1.3553+03	1.3500+03	1.3536+03	1.3511+03	1.3529+03
13	1.3820+03	1.3842+03	1.3801+03	1.3823+03	1.3803+03	1.3811+03
14	1.4561+03	1.4590+03	1.4553+03	1.4573+03	1.4550+03	1.4543+03
15	1.4200+03	1.4230+03	1.4190+03	1.4218+03	1.4195+03	1.4203+03
16	8.7786+02	8.7805+02	8.7842+02	8.7971+02	8.7953+02	8.7971+02
17	9.2833+02	9.2888+02	9.2962+02	9.3053+02	9.2998+02	9.3071+02
18	1.0539+03	1.0550+03	1.0543+03	1.0559+03	1.0552+03	1.0557+03
19	1.1257+03	1.1271+03	1.1259+03	1.1275+03	1.1270+03	1.1271+03
20	1.2033+03	1.2061+03	1.2040+03	1.2056+03	1.2043+03	1.2049+03
21	1.2588+03	1.2612+03	1.2597+03	1.2609+03	1.2595+03	1.2600+03
22	1.3211+03	1.3236+03	1.3206+03	1.3226+03	1.3212+03	1.3223+03
23	1.3828+03	1.3856+03	1.3828+03	1.3844+03	1.3831+03	1.3839+03
24	1.4779+03	1.4812+03	1.4773+03	1.4796+03	1.4781+03	1.4789+03
25	1.5479+03	1.5514+03	1.5480+03	1.5495+03	1.5485+03	1.5487+03
26	1.5890+03	1.5938+03	1.5877+03	1.5900+03	1.5889+03	1.5895+03
27	1.4166+03	1.4183+03	1.4160+03	1.4188+03	1.4171+03	1.4180+03
28	1.5100+03	1.5115+03	1.5095+03	1.5121+03	1.5098+03	1.5112+03
29	1.5775+03	1.5799+03	1.5767+03	1.5792+03	1.5773+03	1.5784+03
30	1.6184+03	1.6205+03	1.6152+03	1.6186+03	1.6160+03	1.6166+03
31	1.6560+03	1.6573+03	1.6525+03	1.6563+03	1.6525+03	1.6542+03
32	1.6969+03	1.6991+03	1.6935+03	1.6972+03	1.6932+03	1.6949+03
33	1.7179+03	1.7204+03	1.7142+03	1.7179+03	1.7136+03	1.7158+03
34	1.7299+03	1.7310+03	1.7257+03	1.7281+03	1.7240+03	1.7256+03
35	1.7514+03	1.7522+03	1.7470+03	1.7486+03	1.7427+03	1.7424+03
36	1.7842+03	1.7867+03	1.7804+03	1.7829+03	1.7787+03	1.7785+03
37	1.8176+03	1.8195+03	1.8138+03	1.8158+03	1.8116+03	1.8107+03
38	1.8457+03	1.8507+03	1.8448+03	1.8471+03	1.8446+03	1.8423+03
39	1.8443+03	1.8494+03	1.8429+03	1.8457+03	1.8447+03	1.8433+03
40	1.7905+03	1.7931+03	1.7872+03	1.7878+03	1.7805+03	1.7774+03

## 300KW TRANSIENT DATA

	646	398	832	838	841	845
	BW 61	BW 62	BW 63	BW 65	PFST	PFMT
1	1.5387+03	1.5372+03	1.5322+03	1.5337+03	1.5154+03	1.9841+02
2	1.5521+03	1.5505+03	1.5449+03	1.5481+03	1.5293+03	1.9691+02
3	1.5428+03	1.5407+03	1.5349+03	1.5361+03	1.5217+03	2.0730+02
4	1.4725+03	1.4712+03	1.4668+03	1.4660+03	1.4506+03	1.9348+02
5	1.4347+03	1.4345+03	1.4279+03	1.4269+03	1.4142+03	1.9128+02
6	1.7138+03	1.7106+03	1.7052+03	1.7076+03	1.6947+03	2.3634+02
7	8.3814+02	8.3944+02	8.3534+02	8.3032+02	8.2770+02	1.3310+02
8	8.8836+02	8.8873+02	8.8570+02	8.8015+02	8.7832+02	1.3512+02
9	9.9807+02	9.9825+02	9.9214+02	9.8870+02	9.8778+02	1.4128+02
10	1.1701+03	1.1697+03	1.1632+03	1.1620+03	1.1574+03	1.4718+02
11	1.3091+03	1.3083+03	1.2995+03	1.3012+03	1.2944+03	1.5756+02
12	1.3601+03	1.3600+03	1.3502+03	1.3531+03	1.3457+03	1.6408+02
13	1.3884+03	1.3882+03	1.3793+03	1.3806+03	1.3704+03	1.7180+02
14	1.4607+03	1.4566+03	1.4512+03	1.4487+03	1.4251+03	1.7886+02
15	1.4257+03	1.4237+03	1.4175+03	1.4205+03	1.4056+03	2.0166+02
16	8.8433+02	8.8489+02	8.8027+02	8.7675+02	8.6096+02	1.0798+02
17	9.3582+02	9.3692+02	9.3090+02	9.2632+02	9.1374+02	1.0991+02
18	1.0617+03	1.0618+03	1.0554+03	1.0523+03	1.0356+03	1.1524+02
19	1.1351+03	1.1343+03	1.1273+03	1.1256+03	1.1070+03	1.2210+02
20	1.2138+03	1.2133+03	1.2045+03	1.2033+03	1.1964+03	1.5598+02
21	1.2669+03	1.2645+03	1.2597+03	1.2586+03	1.2504+03	1.6227+02
22	1.3311+03	1.3300+03	1.3207+03	1.3212+03	1.3125+03	1.6949+02
23	1.3926+03	1.3911+03	1.3824+03	1.3826+03	1.3748+03	1.7609+02
24	1.4884+03	1.4867+03	1.4769+03	1.4789+03	1.4704+03	1.8382+02
25	1.5592+03	1.5567+03	1.5464+03	1.5498+03	1.5422+03	1.9357+02
26	1.5999+03	1.5981+03	1.5867+03	1.5916+03	1.5837+03	2.0945+02
27	1.4208+03	1.4203+03	1.4166+03	1.4175+03	1.4186+03	2.1068+02
28	1.5126+03	1.5117+03	1.5092+03	1.5082+03	1.5114+03	2.0941+02
29	1.5841+03	1.5826+03	1.5763+03	1.5781+03	1.5809+03	2.1108+02
30	1.6249+03	1.6233+03	1.6136+03	1.6190+03	1.6169+03	2.1354+02
31	1.6613+03	1.6600+03	1.6502+03	1.6542+03	1.6542+03	2.1618+02
32	1.7029+03	1.7016+03	1.6908+03	1.6957+03	1.6932+03	2.1931+02
33	1.7234+03	1.7222+03	1.7111+03	1.7169+03	1.7113+03	2.2300+02
34	1.7342+03	1.7321+03	1.7210+03	1.7275+03	1.7248+03	2.2538+02
35	1.7473+03	1.7454+03	1.7360+03	1.7400+03	1.7338+03	2.2868+02
36	1.7851+03	1.7833+03	1.7731+03	1.7779+03	1.7724+03	2.3252+02
37	1.8173+03	1.8146+03	1.8053+03	1.8086+03	1.8007+03	2.3588+02
38	1.8466+03	1.8411+03	1.8370+03	1.8363+03	1.8160+03	2.4756+02
39	1.8498+03	1.8473+03	1.8392+03	1.8393+03	1.8175+03	2.4848+02
40	1.7751+03	1.7693+03	1.7697+03	1.7698+03	1.7500+03	2.4936+02

# 300KW TRANSIENT DATA

	814	817	820	823	829	643
	BW 54	BW 55	BW 56	BW 57	BW 59	BW 60
1	1.5375+03	1.5401+03	1.5409+03	1.5403+03	1.5390+03	1.5390+03
2	1.5512+03	1.5540+03	1.5544+03	1.5549+03	1.5528+03	1.5540+03
3	1.5408+03	1.5448+03	1.5441+03	1.5446+03	1.5443+03	1.5436+03
4	1.4712+03	1.4735+03	1.4732+03	1.4737+03	1.4727+03	1.4730+03
5	1.4311+03	1.4353+03	1.4358+03	1.4357+03	1.4348+03	1.4360+03
6	1.7135+03	1.7177+03	1.7144+03	1.7138+03	1.7139+03	1.7188+03
7	8.3181+02	8.3851+02	8.3944+02	8.3963+02	8.3851+02	8.3591+02
8	8.8200+02	8.8929+02	8.8929+02	8.8947+02	8.8799+02	8.8651+02
9	9.9069+02	9.9843+02	9.9951+02	9.9861+02	9.9861+02	9.9608+02
10	1.1640+03	1.1715+03	1.1721+03	1.1711+03	1.1702+03	1.1694+03
11	1.3034+03	1.3095+03	1.3115+03	1.3105+03	1.3103+03	1.3088+03
12	1.3553+03	1.3613+03	1.3630+03	1.3620+03	1.3615+03	1.3608+03
13	1.3835+03	1.3907+03	1.3902+03	1.3894+03	1.3896+03	1.3896+03
14	1.4563+03	1.4616+03	1.4604+03	1.4601+03	1.4612+03	1.4634+03
15	1.4223+03	1.4268+03	1.4268+03	1.4268+03	1.4270+03	1.4273+03
16	8.7749+02	8.8507+02	8.8526+02	8.8544+02	8.8433+02	8.8174+02
17	9.2852+02	9.3655+02	9.3765+02	9.3692+02	9.3655+02	9.3454+02
18	1.0546+03	1.0622+03	1.0631+03	1.0624+03	1.0626+03	1.0602+03
19	1.1277+03	1.1350+03	1.1360+03	1.1355+03	1.1350+03	1.1337+03
20	1.2054+03	1.2140+03	1.2152+03	1.2138+03	1.2141+03	1.2128+03
21	1.2612+03	1.2683+03	1.2659+03	1.2678+03	1.2676+03	1.2637+03
22	1.3236+03	1.3314+03	1.3328+03	1.3318+03	1.3316+03	1.3309+03
23	1.3858+03	1.3933+03	1.3938+03	1.3935+03	1.3933+03	1.3923+03
24	1.4816+03	1.4882+03	1.4904+03	1.4885+03	1.4894+03	1.4887+03
25	1.5519+03	1.5584+03	1.5605+03	1.5584+03	1.5600+03	1.5597+03
26	1.5938+03	1.6001+03	1.6018+03	1.5999+03	1.6004+03	1.6005+03
27	1.4181+03	1.4218+03	1.4222+03	1.4222+03	1.4215+03	1.4207+03
28	1.5113+03	1.5135+03	1.5143+03	1.5136+03	1.5135+03	1.5136+03
29	1.5805+03	1.5844+03	1.5861+03	1.5839+03	1.5846+03	1.5857+03
30	1.6197+03	1.6260+03	1.6270+03	1.6251+03	1.6249+03	1.6270+03
31	1.6566+03	1.6637+03	1.6635+03	1.6621+03	1.6619+03	1.6634+03
32	1.6986+03	1.7043+03	1.7053+03	1.7032+03	1.7037+03	1.7050+03
33	1.7191+03	1.7253+03	1.7258+03	1.7241+03	1.7247+03	1.7260+03
34	1.7286+03	1.7364+03	1.7358+03	1.7337+03	1.7348+03	1.7390+03
35	1.7440+03	1.7517+03	1.7495+03	1.7476+03	1.7476+03	1.7530+03
36	1.7812+03	1.7879+03	1.7871+03	1.7859+03	1.7860+03	1.7895+03
37	1.8127+03	1.8203+03	1.8193+03	1.8162+03	1.8166+03	1.8221+03
38	1.8454+03	1.8486+03	1.8456+03	1.8438+03	1.8461+03	1.8532+03
39	1.8475+03	1.8509+03	1.8503+03	1.8489+03	1.8509+03	1.8538+03
40	1.7782+03	1.7805+03	1.7756+03	1.7745+03	1.7737+03	1.7838+03

## 300KW TRANSIENT DATA

	848	851	854	857	862	865
	PFLD-R	SIT/I	SIT	SIT	SOT	SOT
1	2.8630+00	1.1085+03	1.1089+03	1.1089+03	1.4368+03	1.4376+03
2	2.8725+00	1.1657+03	1.1665+03	1.1665+03	1.4420+03	1.4425+03
3	2.9191+00	1.0936+03	1.0946+03	1.0946+03	1.4340+03	1.4347+03
4	2.9624+00	9.8505+02	9.8375+02	9.8393+02	1.3798+03	1.3801+03
5	3.0023+00	9.1594+02	9.1436+02	9.1472+02	1.4074+03	1.4077+03
6	6.4396+00	1.1992+03	1.2043+03	1.2045+03	1.6074+03	1.6083+03
7	7.3305+00	7.4541+02	7.4709+02	7.4784+02	8.2400+02	8.2344+02
8	7.2045+00	7.7906+02	7.8114+02	7.8096+02	8.7256+02	8.7238+02
9	6.7987+00	8.3015+02	8.3092+02	8.3148+02	9.6100+02	9.6010+02
10	6.1422+00	7.1713+02	7.1758+02	7.1796+02	1.0566+03	1.0572+03
11	5.1968+00	7.9973+02	8.0227+02	8.0059+02	1.1601+03	1.1609+03
12	5.8001+00	8.3833+02	8.4277+02	8.4184+02	1.1990+03	1.1995+03
13	4.7486+00	8.1880+02	8.2507+02	8.2433+02	1.2204+03	1.2211+03
14	4.7867+00	8.0011+02	8.0710+02	8.0673+02	1.2194+03	1.2200+03
15	4.9057+00	6.3223+02	6.3181+02	6.3162+02	1.1284+03	1.1305+03
16	8.0292+00	7.5819+02	7.6172+02	7.6209+02	8.5242+02	8.5354+02
17	7.6943+00	8.0217+02	8.0530+02	8.0623+02	8.6404+02	8.6459+02
18	7.0254+00	8.7902+02	8.8387+02	8.8424+02	9.5794+02	9.5794+02
19	6.7077+00	9.6641+02	9.7237+02	9.7273+02	1.0218+03	1.0222+03
20	6.1774+00	1.0308+03	1.0380+03	1.0382+03	1.0859+03	1.0864+03
21	5.3460+00	1.0871+03	1.0946+03	1.0948+03	1.1488+03	1.1495+03
22	3.7635+00	1.1440+03	1.1516+03	1.1518+03	1.2163+03	1.2168+03
23	2.7575+00	1.2083+03	1.2160+03	1.2165+03	1.2849+03	1.2853+03
24	2.8224+00	1.2827+03	1.2906+03	1.2904+03	1.3786+03	1.3794+03
25	7.0379+00	1.3639+03	1.3719+03	1.3722+03	1.4547+03	1.4556+03
26	7.1287+00	1.4242+03	1.4313+03	1.4310+03	1.4849+03	1.4860+03
27	6.4827+00	1.2443+03	1.2439+03	1.2432+03	1.3331+03	1.3340+03
28	6.5273+00	1.1725+03	1.1696+03	1.1687+03	1.4191+03	1.4196+03
29	6.3647+00	1.2024+03	1.1991+03	1.1983+03	1.4895+03	1.4906+03
30	6.3510+00	1.2581+03	1.2578+03	1.2571+03	1.5165+03	1.5168+03
31	6.2901+00	1.2582+03	1.2593+03	1.2579+03	1.5904+03	1.5909+03
32	6.2528+00	1.2820+03	1.2842+03	1.2814+03	1.6400+03	1.6408+03
33	6.2032+00	1.3149+03	1.3184+03	1.3153+03	1.6496+03	1.6506+03
34	6.1834+00	1.3384+03	1.3429+03	1.3409+03	1.6266+03	1.6279+03
35	6.1667+00	1.3491+03	1.3544+03	1.3532+03	1.6501+03	1.6515+03
36	6.0728+00	1.3516+03	1.3568+03	1.3563+03	1.7193+03	1.7201+03
37	6.0388+00	1.3688+03	1.3762+03	1.3725+03	1.7443+03	1.7456+03
38	6.0423+00	1.4115+03	1.4174+03	1.4156+03	1.6956+03	1.6971+03
39	6.0350+00	1.4042+03	1.4092+03	1.4083+03	1.6625+03	1.6632+03
40	5.4254+00	1.3452+03	1.3479+03	1.3471+03	1.6325+03	1.6350+03

## 300KW TRANSIENT DATA

	598	868	871	877	880	883
	SOT-D	SOT/IS	VSCIT	VCSIT	VCSOT	VCSOT
1	1.4436+03	1.4451+03	1.4355+03	1.4361+03	1.4295+03	1.4293+03
2	1.4498+03	1.4503+03	1.4429+03	1.4431+03	1.4349+03	1.4343+03
3	1.4373+03	1.4356+03	1.4330+03	1.4332+03	1.4260+03	1.4262+03
4	1.3847+03	1.3835+03	1.3777+03	1.3788+03	1.3717+03	1.3720+03
5	1.4131+03	1.4099+03	1.4061+03	1.4067+03	1.3990+03	1.3990+03
6	1.6172+03	1.6020+03	1.5995+03	1.6011+03	1.5810+03	1.5810+03
7	8.3218+02	8.1973+02	8.0718+02	8.0699+02	7.7432+02	7.7790+02
8	8.8218+02	8.6850+02	8.5402+02	8.5365+02	8.1719+02	8.2054+02
9	9.9105+02	9.5501+02	9.4125+02	9.4015+02	8.7575+02	8.7834+02
10	1.0655+03	1.0573+03	1.0532+03	1.0541+03	9.6264+02	9.7604+02
11	1.1703+03	1.1591+03	1.1569+03	1.1576+03	1.1158+03	1.1154+03
12	1.2129+03	1.1957+03	1.1939+03	1.1949+03	1.1265+03	1.1261+03
13	1.2397+03	1.2145+03	1.2123+03	1.2127+03	1.1379+03	1.1378+03
14	1.2404+03	1.2128+03	1.2111+03	1.2116+03	1.1465+03	1.1457+03
15	1.1592+03	1.1333+03	1.1270+03	1.1293+03	1.0772+03	1.0771+03
16	8.7842+02	8.6243+02	8.0672+02	8.0448+02	7.7217+02	7.7556+02
17	9.3071+02	8.7680+02	8.6003+02	8.6040+02	8.2605+02	8.3238+02
18	9.9577+02	9.6949+02	9.5609+02	9.5663+02	9.3606+02	9.3643+02
19	1.0340+03	1.0320+03	1.0231+03	1.0237+03	1.0086+03	1.0086+03
20	1.0957+03	1.0805+03	1.0888+03	1.0895+03	1.0771+03	1.0774+03
21	1.1564+03	1.1439+03	1.1513+03	1.1518+03	1.1429+03	1.1432+03
22	1.2241+03	1.2111+03	1.2193+03	1.2194+03	1.2125+03	1.2125+03
23	1.2908+03	1.2794+03	1.2886+03	1.2889+03	1.2831+03	1.2833+03
24	1.3855+03	1.3731+03	1.3829+03	1.3836+03	1.3775+03	1.3780+03
25	1.4594+03	1.4478+03	1.4573+03	1.4582+03	1.4529+03	1.4532+03
26	1.4910+03	1.4787+03	1.4873+03	1.4878+03	1.4806+03	1.4794+03
27	1.3422+03	1.3354+03	1.3324+03	1.3328+03	1.3268+03	1.3270+03
28	1.4227+03	1.4229+03	1.4190+03	1.4197+03	1.4140+03	1.4143+03
29	1.4967+03	1.4940+03	1.4928+03	1.4934+03	1.4881+03	1.4883+03
30	1.5239+03	1.5183+03	1.5166+03	1.5174+03	1.5107+03	1.5100+03
31	1.5978+03	1.5919+03	1.5900+03	1.5908+03	1.5851+03	1.5845+03
32	1.6463+03	1.6394+03	1.6407+03	1.6420+03	1.6359+03	1.6348+03
33	1.6561+03	1.6486+03	1.6513+03	1.6522+03	1.6455+03	1.6445+03
34	1.6348+03	1.6241+03	1.6287+03	1.6287+03	1.6213+03	1.6204+03
35	1.6605+03	1.6481+03	1.6492+03	1.6507+03	1.6439+03	1.6433+03
36	1.7270+03	1.7155+03	1.7181+03	1.7188+03	1.7121+03	1.7124+03
37	1.7517+03	1.7392+03	1.7430+03	1.7443+03	1.7373+03	1.7364+03
38	1.7060+03	1.6924+03	1.6948+03	1.6955+03	1.6877+03	1.6867+03
39	1.6704+03	1.6581+03	1.6606+03	1.6617+03	1.6533+03	1.6522+03
40	1.6490+03	1.6350+03	1.6290+03	1.6314+03	1.6247+03	1.6250+03

# 300KW TRANSIENT DATA

	886	889	892	895	899	902
	VCSOT	HCSOT	HCSOT	SFST	SFMT	SFLO-R
1	1.4295+03	1.2731+03	1.2750+03	1.0933+03	1.2989+02	2.1078-01
2	1.4341+03	1.1966+03	1.1982+03	1.1550+03	1.2663+02	1.9815-01
3	1.4257+03	1.0747+03	1.0764+03	1.0794+03	1.3526+02	2.2250-01
4	1.3717+03	8.3624+02	8.3699+02	9.7262+02	1.2232+02	2.7111-01
5	1.3994+03	9.0318+02	9.0337+02	8.9996+02	1.2012+02	2.0707-01
6	1.5801+03	1.3961+03	1.3956+03	1.1997+03	1.4612+02	2.0964-01
7	7.7714+02	7.4706+02	7.4763+02	7.5411+02	1.1946+02	2.4213-01
8	8.1961+02	7.8627+02	7.8646+02	7.8770+02	1.2060+02	2.3911-01
9	8.7778+02	7.6634+02	7.6652+02	8.2048+02	1.2280+02	1.1501-01
10	9.6699+02	7.3559+02	7.3635+02	7.1673+02	1.2034+02	1.2142-01
11	1.1153+03	8.2744+02	8.2911+02	8.1962+02	1.1796+02	9.5149-02
12	1.1256+03	8.3576+02	8.3929+02	8.2964+02	1.1876+02	7.7734-02
13	1.1372+03	8.3467+02	8.3839+02	8.0496+02	1.1933+02	6.7899-02
14	1.1451+03	8.6412+02	8.6743+02	7.9648+02	1.1968+02	6.0103-02
15	1.0757+03	5.1239+02	5.1239+02	6.2298+02	1.1950+02	5.9332-02
16	7.7443+02	7.2841+02	7.2879+02	7.5365+02	8.9056+01	2.2547-01
17	8.3070+02	7.9541+02	7.9635+02	7.9682+02	9.0552+01	3.1792-01
18	9.3496+02	9.1300+02	9.1319+02	8.7560+02	9.3236+01	3.1126-01
19	1.0079+03	1.0057+03	1.0061+03	9.6023+02	9.7460+01	3.0905-01
20	1.0766+03	1.0757+03	1.0755+03	1.0333+03	1.2958+02	2.9883-01
21	1.1418+03	1.1417+03	1.1415+03	1.0891+03	1.3455+02	2.9549-01
22	1.2109+03	1.2115+03	1.2109+03	1.1465+03	1.3891+02	2.6503-01
23	1.2824+03	1.2836+03	1.2824+03	1.2133+03	1.4274+02	2.5719-01
24	1.3763+03	1.3773+03	1.3773+03	1.2894+03	1.4731+02	2.5422-01
25	1.4517+03	1.4532+03	1.4529+03	1.3717+03	1.5277+02	2.4584-01
26	1.4797+03	1.4711+03	1.4721+03	1.4253+03	1.6117+02	2.3982-01
27	1.3259+03	1.3270+03	1.3283+03	1.2334+03	1.5580+02	8.9159-02
28	1.4128+03	1.4148+03	1.4158+03	1.1795+03	1.5189+02	8.8526-02
29	1.4868+03	1.4883+03	1.4895+03	1.2241+03	1.4960+02	8.4958-02
30	1.5095+03	1.5112+03	1.5125+03	1.2648+03	1.4766+02	8.7436-02
31	1.5840+03	1.5864+03	1.5872+03	1.2762+03	1.4722+02	8.7570-02
32	1.6346+03	1.6367+03	1.6380+03	1.3180+03	1.4903+02	9.2204-02
33	1.6445+03	1.6471+03	1.6482+03	1.3502+03	1.4920+02	8.4408-02
34	1.6200+03	1.6213+03	1.6213+03	1.3630+03	1.5070+02	8.2515-02
35	1.6421+03	1.6452+03	1.6450+03	1.3628+03	1.5136+02	8.6644-02
36	1.7112+03	1.7140+03	1.7157+03	1.3773+03	1.5268+02	8.4770-02
37	1.7360+03	1.7389+03	1.7389+03	1.4041+03	1.5356+02	8.7197-02
38	1.6864+03	1.6862+03	1.6867+03	1.4255+03	1.5831+02	8.5484-02
39	1.6517+03	1.6416+03	1.6437+03	1.4176+03	1.5840+02	8.7447-02
40	1.6219+03	1.6253+03	1.6247+03	1.3330+03	1.5712+02	1.0892-01



# 300KW TRANSIENT DATA

	906	909	912	915	916	917
	PGTC	PGTC	PGTC	PGTC	SPIP	SPOP
1	4.6277+02	4.1269+02	8.5408+02	2.8505+02	1.0320+01	4.9620+01
2	4.6215+02	4.1113+02	8.2783+02	2.8579+02	1.0560+01	6.8520+01
3	4.6726+02	4.2106+02	8.0925+02	2.9572+02	8.2200+00	7.0380+01
4	4.3144+02	4.1398+02	8.0278+02	2.7576+02	-1.0200+00	1.1160+01
5	4.2364+02	3.9832+02	8.0068+02	2.7668+02	3.4800+00	1.3680+01
6	4.7724+02	4.4996+02	8.0786+02	4.0452+02	4.5600+01	8.1000+01
7	2.4659+02	3.2789+02	8.0299+02	1.4498+02	-1.5300+01	9.0120+01
8	2.5852+02	3.3415+02	2.1970+03	1.4524+02	-1.5300+01	8.8080+01
9	2.9145+02	3.5071+02	8.0282+02	1.4744+02	-1.5300+01	7.3200+00
10	3.0370+02	3.5503+02	8.0089+02	1.8930+02	-1.5300+01	1.0500+01
11	3.1584+02	3.5071+02	8.0114+02	2.3802+02	-1.5300+01	1.0380+01
12	3.2715+02	3.5567+02	8.0274+02	2.5096+02	-1.5300+01	1.0500+01
13	3.3787+02	3.6041+02	8.0370+02	2.6825+02	-1.5300+01	1.1880+01
14	3.4238+02	3.5986+02	8.0194+02	2.8404+02	-1.5300+01	1.2840+01
15	3.1078+02	3.2610+02	7.9925+02	2.6138+02	-1.5300+01	1.5600+01
16	1.5858+02	3.2278+02	7.8699+02	1.1502+02	-1.5300+01	1.3212+02
17	1.7458+02	3.3401+02	7.8758+02	1.2575+02	-1.5300+01	1.3210+02
18	2.1544+02	3.5153+02	7.8552+02	1.5176+02	-1.5300+01	1.3209+02
19	2.5037+02	3.7346+02	7.8199+02	1.7571+02	-1.5300+01	1.3207+02
20	3.0458+02	4.1743+02	8.1055+02	2.1482+02	-1.5300+01	1.3207+02
21	3.3125+02	4.3575+02	8.2915+02	2.3454+02	-1.5300+01	1.3206+02
22	3.6156+02	4.5551+02	8.9563+02	2.5395+02	-1.5300+01	1.3128+02
23	3.8750+02	4.7122+02	9.5431+02	2.7010+02	-1.3320+01	1.2942+02
24	4.1573+02	4.8899+02	9.4986+02	2.9315+02	-2.1000+00	1.3200+02
25	4.4561+02	5.0809+02	8.9416+02	3.1633+02	1.0260+01	1.3201+02
26	4.9845+02	5.4773+02	8.3025+02	3.3976+02	1.6680+01	1.3201+02
27	5.4192+02	5.6656+02	8.1164+02	2.8271+02	-7.0800+00	1.5480+01
28	5.3845+02	5.6089+02	8.0916+02	2.9609+02	5.9400+00	2.9400+01
29	5.3924+02	5.5244+02	8.0950+02	3.0920+02	2.0340+01	4.2360+01
30	5.5138+02	5.5094+02	8.0849+02	3.1966+02	2.5740+01	4.6980+01
31	5.5490+02	5.5270+02	8.0933+02	3.3162+02	4.6080+01	6.7260+01
32	5.6155+02	5.5407+02	8.0811+02	3.4868+02	6.2700+01	8.2860+01
33	5.6920+02	5.5732+02	8.0828+02	3.5669+02	6.5100+01	8.4840+01
34	5.7642+02	5.6146+02	8.0845+02	3.5595+02	5.5320+01	7.5120+01
35	5.8368+02	5.6520+02	8.0908+02	3.5986+02	6.6300+01	8.6160+01
36	5.9046+02	5.6828+02	8.0908+02	3.7544+02	9.4380+01	1.1316+02
37	5.9718+02	5.7092+02	8.0908+02	3.8336+02	1.0536+02	1.2360+02
38	6.2483+02	5.9164+02	8.0900+02	3.8987+02	8.3280+01	1.0116+02
39	6.2668+02	5.9382+02	8.0908+02	3.8688+02	6.9600+01	8.7360+01
40	6.2276+02	5.9428+02	8.0870+02	3.5761+02	6.7080+01	9.6600+01

# 300KW TRANSIENT DATA

	918	919	922	925	928	931
	BIP	BOP	VCAIT	VCAIT	VCAOT	VCAOT
1	1.6100+01	1.0755+01	3.0841+02	4.4869+02	5.8333+02	5.3669+02
2	1.9040+01	1.2615+01	3.0832+02	4.5124+02	5.9340+02	5.4628+02
3	1.3580+01	8.2750+00	3.2306+02	4.6312+02	6.0644+02	5.6080+02
4	5.4200+00	8.3500-01	3.0797+02	4.4781+02	5.9684+02	5.5077+02
5	8.1200+00	4.0900+00	3.0506+02	4.4402+02	5.8945+02	5.4170+02
6	6.2600+01	5.1985+01	3.9392+02	5.0360+02	6.7898+02	6.2448+02
7	-1.3000+01	-2.3500+01	1.6815+02	2.2450+02	3.1338+02	3.0458+02
8	-1.3000+01	-2.3500+01	1.6823+02	2.2547+02	3.2062+02	3.1171+02
9	-1.3000+01	-2.3500+01	1.7470+02	2.3718+02	3.5071+02	3.3967+02
10	-1.3000+01	-2.3500+01	1.8146+02	2.4940+02	3.7465+02	3.6317+02
11	-1.2640+01	-2.1950+01	1.9938+02	2.7870+02	4.3822+02	4.1968+02
12	-9.7000+00	-1.9935+01	2.1535+02	3.0027+02	4.6563+02	4.4407+02
13	-8.2000+00	-1.6370+01	2.3336+02	3.1984+02	4.9084+02	4.6444+02
14	-8.4400+00	-1.3735+01	2.4735+02	3.3608+02	5.0769+02	4.7777+02
15	-1.1560+01	-1.9005+01	2.3790+02	3.2527+02	4.7359+02	4.4939+02
16	-1.3000+01	-2.3500+01	1.4058+02	1.9282+02	3.0238+02	2.9347+02
17	-1.3000+01	-2.3500+01	1.4700+02	2.0276+02	3.0880+02	2.9692+02
18	-1.3000+01	-2.3500+01	1.5396+02	2.1500+02	3.2669+02	3.1136+02
19	-1.3000+01	-2.3500+01	1.6563+02	2.3315+02	3.5411+02	3.3663+02
20	-1.3000+01	-2.3500+01	2.0184+02	2.7438+02	4.0052+02	3.8292+02
21	-1.3000+01	-2.3500+01	2.1407+02	2.9453+02	4.2539+02	4.0571+02
22	-1.2280+01	-1.8850+01	2.2938+02	3.1782+02	4.5326+02	4.3346+02
23	-3.4000+00	-1.3115+01	2.4302+02	3.4146+02	4.7896+02	4.5784+02
24	7.2200+00	-2.1100+00	2.6077+02	3.6805+02	5.1161+02	4.8653+02
25	1.8920+01	1.1375+01	2.8197+02	3.9854+02	5.4914+02	5.2142+02
26	2.3240+01	1.6335+01	3.2481+02	4.6039+02	6.0340+02	5.6907+02
27	-1.4800+00	-8.9300+00	3.3120+02	4.6871+02	5.8311+02	5.4351+02
28	1.1120+01	5.0200+00	3.1580+02	4.5432+02	5.7136+02	5.3132+02
29	2.4920+01	1.9280+01	3.1540+02	4.5568+02	5.8714+02	5.4544+02
30	3.0860+01	2.5325+01	3.3143+02	4.7817+02	6.1797+02	5.7497+02
31	5.0420+01	4.5320+01	3.3801+02	4.8314+02	6.2821+02	5.8302+02
32	6.6440+01	6.0510+01	3.4928+02	4.9612+02	6.4900+02	6.0138+02
33	6.9260+01	6.3765+01	3.6322+02	5.1297+02	6.6893+02	6.1977+02
34	5.8640+01	5.5550+01	3.7579+02	5.2639+02	6.8184+02	6.3296+02
35	7.1000+01	6.8570+01	3.8340+02	5.3400+02	6.8490+02	6.3602+02
36	9.8900+01	9.3370+01	3.9317+02	5.4553+02	6.9741+02	6.4535+02
37	1.0946+02	1.0375+02	4.0395+02	5.5851+02	7.1303+02	6.5991+02
38	8.5460+01	8.4690+01	4.3461+02	5.9222+02	1.3165+02	7.3256+02
39	7.1480+01	7.1825+01	4.3342+02	5.8941+02	7.2681+02	6.7415+02
40	7.3700+01	6.4385+01	4.1150+02	5.6590+02	6.8553+02	6.3581+02

## 300KW TRANSIENT DATA

	946	949	952	955	961	964
	VCAT	VCAT	VCAT	VCAT	VCWT	VCWT
1	1.3708+03	1.3840+03	1.3721+03	1.2229+03	1.4403+03	1.4391+03
2	1.3861+03	1.3948+03	1.3878+03	1.2566+03	1.4474+03	1.4463+03
3	1.3848+03	1.3922+03	1.3874+03	1.2039+03	1.4382+03	1.4371+03
4	1.3423+03	1.3445+03	1.3454+03	1.2523+03	1.3838+03	1.3826+03
5	1.3563+03	1.3622+03	1.3580+03	1.2686+03	1.4107+03	1.4089+03
6	1.5316+03	1.5320+03	1.5320+03	1.4091+03	1.6010+03	1.5997+03
7	7.0806+02	7.0102+02	7.0366+02	7.7863+02	7.8899+02	7.9124+02
8	7.4495+02	7.3655+02	7.3907+02	8.2559+02	8.3245+02	8.3486+02
9	8.2312+02	8.1794+02	8.1668+02	8.2532+02	8.9568+02	9.0319+02
10	9.1558+02	9.0634+02	9.0592+02	8.4448+02	1.0578+03	1.0552+03
11	1.0619+03	1.0597+03	1.0614+03	8.7582+02	1.1445+03	1.1441+03
12	1.0935+03	1.0907+03	1.0923+03	8.7243+02	1.1741+03	1.1755+03
13	1.1160+03	1.1120+03	1.1142+03	8.7828+02	1.1913+03	1.1918+03
14	1.1254+03	1.1212+03	1.1237+03	9.0177+02	1.1923+03	1.1926+03
15	1.0469+03	1.0465+03	1.0460+03	8.6851+02	1.1168+03	1.1167+03
16	7.1290+02	7.0586+02	7.1114+02	7.5579+02	7.9022+02	7.9229+02
17	7.4638+02	7.3840+02	7.4302+02	8.1752+02	8.4595+02	8.4800+02
18	8.2876+02	8.2040+02	8.2700+02	8.3668+02	9.5174+02	9.4885+02
19	9.0353+02	8.9555+02	9.0311+02	8.5540+02	1.0221+03	1.0196+03
20	9.8060+02	9.7304+02	9.8018+02	8.8136+02	1.0896+03	1.0873+03
21	1.0473+03	1.0393+03	1.0473+03	9.1164+02	1.1558+03	1.1527+03
22	1.1188+03	1.1114+03	1.1196+03	9.5649+02	1.2246+03	1.2217+03
23	1.1913+03	1.1847+03	1.1922+03	1.0075+03	1.2961+03	1.2918+03
24	1.2827+03	1.2768+03	1.2836+03	1.0613+03	1.3906+03	1.3874+03
25	1.3688+03	1.3651+03	1.3709+03	1.0982+03	1.4646+03	1.4618+03
26	1.4237+03	1.4206+03	1.4255+03	1.1512+03	1.4930+03	1.4911+03
27	1.2821+03	1.2775+03	1.2825+03	1.0903+03	1.3385+03	1.3360+03
28	1.3506+03	1.3475+03	1.3506+03	1.1387+03	1.4255+03	1.4228+03
29	1.4225+03	1.4190+03	1.4230+03	1.1804+03	1.5002+03	1.4977+03
30	1.4516+03	1.4507+03	1.4529+03	1.2061+03	1.5234+03	1.5206+03
31	1.5129+03	1.5129+03	1.5138+03	1.2373+03	1.5968+03	1.5942+03
32	1.5712+03	1.5699+03	1.5730+03	1.2847+03	1.6480+03	1.6457+03
33	1.5894+03	1.5876+03	1.5911+03	1.3098+03	1.6585+03	1.6558+03
34	1.5760+03	1.5746+03	1.5782+03	1.2947+03	1.6342+03	1.6318+03
35	1.5809+03	1.5814+03	1.5818+03	1.3506+03	1.6568+03	1.6542+03
36	1.6504+03	1.6504+03	1.6522+03	1.3423+03	1.7254+03	1.7219+03
37	1.6778+03	1.6783+03	1.6800+03	1.3487+03	1.7501+03	1.7470+03
38	1.6471+03	1.6467+03	1.6494+03	1.3712+03	1.7011+03	1.6990+03
39	1.6177+03	1.6160+03	1.6199+03	1.3424+03	1.6668+03	1.6646+03
40	1.5310+03	1.5327+03	1.5314+03	1.3381+03	1.6395+03	1.6369+03

## 300KW TRANSIENT DATA

	970	973	976	979	982	985
	VCWT	VCWT	VCWT	VCWT	VCWD	VCWI
1	1.4376+03	1.4375+03	1.4355+03	1.4341+03	1.3662+03	1.3578+03
2	1.4456+03	1.4446+03	1.4426+03	1.4408+03	1.3878+03	1.3790+03
3	1.4362+03	1.4354+03	1.4339+03	1.4320+03	1.3885+03	1.3792+03
4	1.3810+03	1.3808+03	1.3793+03	1.3779+03	1.3488+03	1.3391+03
5	1.4079+03	1.4077+03	1.4061+03	1.4042+03	1.3586+03	1.3492+03
6	1.5997+03	1.5976+03	1.5946+03	1.5920+03	1.5312+03	1.5255+03
7	7.9482+02	8.0101+02	7.8278+02	7.8711+02	6.9398+02	6.8759+02
8	8.4026+02	8.4677+02	8.2556+02	8.3021+02	7.2706+02	7.2244+02
9	9.0410+02	9.2551+02	8.8907+02	8.9385+02	8.1206+02	8.1248+02
10	1.0550+03	1.0537+03	1.0523+03	1.0523+03	8.7454+02	8.7982+02
11	1.1515+03	1.1464+03	1.1367+03	1.1353+03	1.0525+03	1.0483+03
12	1.1828+03	1.1778+03	1.1659+03	1.1645+03	1.0856+03	1.0832+03
13	1.1988+03	1.1941+03	1.1823+03	1.1808+03	1.1104+03	1.1086+03
14	1.1993+03	1.1944+03	1.1844+03	1.1827+03	1.1236+03	1.1198+03
15	1.1244+03	1.1190+03	1.1093+03	1.1084+03	1.0409+03	1.0342+03
16	7.9755+02	8.0186+02	7.8364+02	7.8721+02	7.0670+02	7.0758+02
17	8.5764+02	8.5191+02	8.3982+02	8.4168+02	7.2904+02	7.2694+02
18	9.4993+02	9.4812+02	9.4576+02	9.4594+02	8.0358+02	7.9686+02
19	1.0197+03	1.0183+03	1.0163+03	1.0161+03	8.8158+02	8.7278+02
20	1.0870+03	1.0859+03	1.0842+03	1.0840+03	9.6107+02	9.5267+02
21	1.1525+03	1.1516+03	1.1502+03	1.1490+03	1.0280+03	1.0196+03
22	1.2205+03	1.2205+03	1.2201+03	1.2182+03	1.1005+03	1.0923+03
23	1.2915+03	1.2906+03	1.2906+03	1.2892+03	1.1745+03	1.1670+03
24	1.3858+03	1.3848+03	1.3851+03	1.3848+03	1.2658+03	1.2583+03
25	1.4592+03	1.4597+03	1.4578+03	1.4572+03	1.3591+03	1.3532+03
26	1.4892+03	1.4887+03	1.4872+03	1.4860+03	1.4253+03	1.4178+03
27	1.3350+03	1.3348+03	1.3335+03	1.3324+03	1.2793+03	1.2692+03
28	1.4217+03	1.4215+03	1.4202+03	1.4195+03	1.3410+03	1.3304+03
29	1.4957+03	1.4954+03	1.4941+03	1.4926+03	1.4146+03	1.4066+03
30	1.5191+03	1.5186+03	1.5173+03	1.5155+03	1.4465+03	1.4386+03
31	1.5926+03	1.5923+03	1.5910+03	1.5900+03	1.5028+03	1.4953+03
32	1.6430+03	1.6430+03	1.6420+03	1.6412+03	1.5680+03	1.5618+03
33	1.6537+03	1.6540+03	1.6529+03	1.6514+03	1.5902+03	1.5840+03
34	1.6295+03	1.6303+03	1.6289+03	1.6273+03	1.5815+03	1.5736+03
35	1.6524+03	1.6529+03	1.6513+03	1.6497+03	1.5743+03	1.5664+03
36	1.7203+03	1.7200+03	1.7192+03	1.7178+03	1.6475+03	1.6411+03
37	1.7454+03	1.7454+03	1.7446+03	1.7430+03	1.6784+03	1.6722+03
38	1.6967+03	1.6967+03	1.6956+03	1.6934+03	1.6548+03	1.6465+03
39	1.6627+03	1.6627+03	1.6612+03	1.6588+03	1.6263+03	1.6180+03
40	1.6359+03	1.6355+03	1.6332+03	1.6327+03	1.5013+03	1.4934+03

# 300KW TRANSIENT DATA

	988	991	1042	1048	994	997
	HCAOT	HCAOT	HCAOTU	HCAOTU	HCIAT	HCIAT
1	1.2233+03	1.2238+03	1.0574+03	1.0706+03	5.5968+01	1.1317+02
2	1.1437+03	1.1538+03	1.0478+03	1.0546+03	6.2040+01	1.0164+02
3	1.0247+03	9.8606+02	9.5288+02	9.6086+02	7.4360+01	1.0604+02
4	7.6225+02	8.4248+02	7.4894+02	7.5482+02	6.3008+01	9.3808+01
5	8.7326+02	8.9181+02	7.8875+02	7.9715+02	6.3624+01	9.3104+01
6	1.2401+03	1.0944+03	1.1429+03	1.1483+03	1.3288+02	7.8760+01
7	1.6941+02	8.0803+02	1.0494+02	1.0494+02	3.2000+01	4.8226+02
8	1.7411+02	8.6759+02	1.0855+02	1.0943+02	3.2000+01	5.0039+02
9	7.0040+02	9.5292+02	5.2740+02	5.4412+02	4.4006+01	1.1884+02
10	6.8242+02	9.9874+02	5.2305+02	5.3405+02	4.4052+01	1.1009+02
11	7.8489+02	8.6306+02	6.8545+02	6.8713+02	5.6496+01	9.7416+01
12	7.4873+02	9.1369+02	6.8011+02	6.8053+02	6.5428+01	9.0948+01
13	8.1580+02	8.9870+02	7.2156+02	7.1946+02	7.5240+01	8.7120+01
14	8.2673+02	8.9211+02	7.4269+02	7.4017+02	8.2412+01	8.6372+01
15	5.3035+02	1.6734+03	4.3751+02	4.4367+02	8.5272+01	8.3072+01
16	1.0714+02	8.7234+02	5.0630+01	4.9250+01	3.2000+01	4.1559+02
17	1.2104+02	8.2620+02	4.9986+01	4.7686+01	3.2000+01	4.7064+02
18	1.3460+02	8.3096+02	5.1734+01	4.6214+01	3.2000+01	5.9000+02
19	1.5642+02	8.7674+02	5.3390+01	4.6490+01	3.2000+01	6.7835+02
20	1.9656+02	9.3020+02	8.1400+01	7.2600+01	3.2000+01	7.4592+02
21	2.1539+02	9.9270+02	8.2632+01	7.3392+01	3.2000+01	8.0480+02
22	2.3193+02	1.0637+03	8.3864+01	7.4184+01	3.2000+01	8.6402+02
23	2.4890+02	1.1479+03	8.6680+01	7.6560+01	3.2000+01	9.1676+02
24	2.7355+02	1.2466+03	9.1608+01	8.1048+01	3.2000+01	9.9916+02
25	3.0370+02	1.3301+03	9.9131+02	8.6900+01	3.2000+01	9.2620+01
26	1.3711+03	1.3677+03	9.1920+02	9.3600+02	6.6352+01	1.6828+02
27	5.2591+02	1.2076+03	6.5503+02	6.4173+02	3.2000+01	9.4981+02
28	4.4948+02	1.3005+03	5.2648+02	5.1548+02	3.2000+01	1.0440+03
29	4.2277+02	1.3800+03	4.3500+02	4.3013+02	3.2000+01	9.5524+01
30	1.4274+03	1.4021+03	1.2594+03	1.2701+03	7.8408+01	1.2505+02
31	1.4940+03	1.4878+03	1.3021+03	1.3124+03	7.4580+01	1.2870+02
32	1.5444+03	1.5400+03	1.3615+03	1.3695+03	7.5680+01	1.2804+02
33	1.5489+03	1.5269+03	1.4126+03	1.4187+03	8.3292+01	1.1893+02
34	1.5095+03	1.4699+03	1.4078+03	1.4095+03	9.3632+01	1.0991+02
35	1.5272+03	1.5334+03	1.4045+03	1.4066+03	9.1564+01	1.1532+02
36	1.6022+03	1.6077+03	1.4644+03	1.4671+03	9.1212+01	1.1805+02
37	1.6214+03	1.6284+03	1.4910+03	1.4932+03	9.4512+01	1.1783+02
38	1.5717+03	1.5409+03	1.4718+03	1.4740+03	1.1097+02	1.8230+02
39	1.5371+03	1.5028+03	1.4429+03	1.4465+03	1.1242+02	1.0450+02
40	1.4001+03	1.5182+03	1.1105+03	1.1255+03	6.2744+01	1.2434+02

# 300KW TRANSIENT DATA

	1000	1003	1006	1009	1012	1015
	HCAT	HCAT	HCAT	HCAT	HCAT	HCAT
1	3.9181+02	4.7773+02	7.5398+02	6.8536+02	9.2860+02	8.2625+02
2	2.5100+02	2.9688+02	5.6168+02	4.8248+02	7.2912+02	6.8864+02
3	2.5496+02	3.2628+02	5.9844+02	4.7852+02	6.5516+02	5.5376+02
4	3.3833+02	2.4940+02	4.7289+02	2.8873+02	3.9665+02	3.0797+02
5	2.4537+02	2.9890+02	5.4654+02	4.1426+02	6.1242+02	4.6690+02
6	1.6324+02	1.7214+02	3.6884+02	3.0172+02	5.0008+02	4.5432+02
7	6.8633+02	6.6990+02	6.5010+02	6.9442+02	6.5274+02	7.0718+02
8	7.2395+02	7.0771+02	6.8641+02	7.3235+02	6.8977+02	7.4327+02
9	2.0320+02	2.1288+02	3.6221+02	2.6160+02	4.2921+02	3.2495+02
10	2.4268+02	2.5813+02	4.4957+02	2.9241+02	5.0941+02	3.5121+02
11	1.7357+02	1.7987+02	3.5222+02	3.0366+02	4.6902+02	4.2750+02
12	1.4595+02	1.4815+02	2.7067+02	2.4835+02	3.7223+02	3.5328+02
13	1.4344+02	1.4784+02	2.7438+02	2.4764+02	3.7544+02	3.5618+02
14	1.4269+02	1.4665+02	2.7544+02	2.4945+02	3.7601+02	3.5816+02
15	1.4071+02	1.4467+02	2.9039+02	2.3580+02	3.9691+02	3.4091+02
16	6.5538+02	6.4249+02	6.1810+02	6.6506+02	6.1678+02	6.7289+02
17	7.2034+02	7.0612+02	6.8238+02	7.3042+02	6.8406+02	7.4008+02
18	8.7648+02	8.5796+02	8.3800+02	8.8000+02	8.4356+02	8.8858+02
19	9.5309+02	9.3377+02	9.1529+02	9.5729+02	9.2285+02	9.6905+02
20	1.0293+03	1.0104+03	9.9110+02	1.0335+03	9.9950+02	1.0449+03
21	1.0979+03	1.0783+03	1.0598+03	1.1023+03	1.0673+03	1.1137+03
22	1.1662+03	1.1461+03	1.1284+03	1.1704+03	1.1364+03	1.1819+03
23	1.2384+03	1.2191+03	1.2006+03	1.2434+03	1.2073+03	1.2549+03
24	1.3304+03	1.3102+03	1.2940+03	1.3361+03	1.2993+03	1.3480+03
25	1.4093+03	1.3889+03	1.3722+03	1.4157+03	1.3771+03	1.4271+03
26	4.7711+02	5.3563+02	8.1152+02	7.5723+02	1.0112+03	9.3768+02
27	1.2903+03	1.2703+03	1.2547+03	1.2977+03	1.2618+03	1.3096+03
28	1.3830+03	1.3623+03	1.3470+03	1.3900+03	1.3523+03	1.4011+03
29	1.4546+03	1.4326+03	1.4177+03	1.4617+03	1.4221+03	1.4736+03
30	4.1821+02	4.8345+02	7.9110+02	7.2878+02	1.0084+03	9.2146+02
31	4.8314+02	5.5662+02	8.9471+02	8.1013+02	1.1118+03	1.0043+03
32	4.6972+02	5.4188+02	8.8484+02	8.1076+02	1.1094+03	1.0087+03
33	3.5862+02	4.0109+02	7.3009+02	6.8037+02	9.6477+02	8.7269+02
34	2.9855+02	3.3125+02	6.4052+02	5.9458+02	8.6411+02	7.8002+02
35	3.7152+02	4.2231+02	7.5100+02	7.0084+02	9.8694+02	8.9706+02
36	4.0021+02	4.5445+02	8.0879+02	7.4815+02	1.0488+03	9.4881+02
37	3.9251+02	4.4411+02	8.0312+02	7.4500+02	1.0469+03	9.4440+02
38	3.0401+02	3.3649+02	6.5877+02	6.1709+02	8.9710+02	8.0622+02
39	2.9163+02	3.2375+02	6.3451+02	5.9151+02	8.6310+02	7.7821+02
40	8.8719+02	9.5061+02	1.3280+03	1.2328+03	1.4821+03	1.3376+03

# 300KW TRANSIENT DATA

	1018	1021	1024	1027	1030	1033
	HCAT	HCAT	HCAT	HCAT	HCAT	HCAT
1	9.6346+02	9.0214+02	1.0925+03	1.0164+03	9.9968+01	1.0609+03
2	1.0293+03	8.1202+02	9.2390+02	9.2012+02	9.9880+01	9.4364+02
3	1.1454+03	5.7092+02	7.5306+02	6.8108+02	1.0780+02	7.4634+02
4	2.1970+03	3.1721+02	4.1913+02	4.0809+02	9.8648+01	4.6541+02
5	1.9803+03	4.6162+02	5.7426+02	5.3994+02	9.5744+01	5.8777+02
6	1.3565+03	5.9550+02	7.5732+02	7.6392+02	1.2540+02	8.8268+02
7	1.0291+03	7.0762+02	6.6506+02	6.9882+02	1.0230+02	7.0234+02
8	9.6535+02	7.4327+02	7.0023+02	7.3445+02	1.0151+02	7.3823+02
9	1.6067+03	3.8164+02	5.5204+02	4.7416+02	1.0124+02	5.2652+02
10	1.7532+03	3.7773+02	5.6749+02	4.6541+02	9.6448+01	5.1953+02
11	1.7395+03	5.3678+02	6.4581+02	5.9945+02	1.0006+02	6.1234+02
12	2.1970+03	4.4671+02	5.4527+02	5.5935+02	1.0327+02	6.1775+02
13	1.7848+03	4.4728+02	5.5684+02	5.6476+02	1.0516+02	6.6484+02
14	2.1970+03	4.5181+02	5.6093+02	5.6973+02	1.0881+02	6.6805+02
15	1.9215+03	3.8591+02	5.6071+02	4.0219+02	9.9792+01	4.0527+02
16	1.1658+03	6.6858+02	6.1942+02	6.5362+02	7.3260+01	6.5538+02
17	9.5292+02	7.3714+02	6.9162+02	7.2580+02	7.4844+01	7.2790+02
18	8.6076+02	8.8522+02	8.4236+02	8.6944+02	7.5196+01	8.6076+02
19	8.0509+02	9.6905+02	9.3461+02	9.6359+02	8.0740+01	9.6737+02
20	8.7916+02	1.0457+03	1.0113+03	1.0402+03	1.1220+02	1.0440+03
21	8.9736+02	1.1155+03	1.0807+03	1.1084+03	1.1079+02	1.1146+03
22	9.1491+02	1.1841+03	1.1490+03	1.1776+03	1.1422+02	1.1837+03
23	9.0332+02	1.2571+03	1.2212+03	1.2500+03	1.1704+02	1.2566+03
24	9.7522+02	1.3502+03	1.3144+03	1.3427+03	1.1889+02	1.3502+03
25	1.0854+03	1.4297+03	1.3938+03	1.4223+03	1.2342+02	1.4293+03
26	1.0823+03	1.0634+03	1.2370+03	1.2370+03	1.2619+02	1.3026+03
27	1.0128+03	1.3117+03	1.2766+03	1.3052+03	1.1603+02	1.3117+03
28	1.1269+03	1.4037+03	1.3678+03	1.3965+03	1.1220+02	1.4037+03
29	1.2414+03	1.4762+03	1.4392+03	1.4687+03	1.1224+02	1.4766+03
30	1.0885+03	1.0475+03	1.2492+03	1.2462+03	1.1537+02	1.3198+03
31	1.1990+03	1.1267+03	1.3520+03	1.3349+03	1.1594+02	1.4097+03
32	1.2675+03	1.1429+03	1.3619+03	1.3598+03	1.1836+02	1.4374+03
33	1.1573+03	1.0374+03	1.2078+03	1.2559+03	1.2113+02	1.3511+03
34	1.1218+03	9.5196+02	1.1361+03	1.1642+03	1.2267+02	1.2691+03
35	1.1564+03	1.0600+03	1.2309+03	1.2785+03	1.2104+02	1.3691+03
36	1.2528+03	1.1153+03	1.2976+03	1.3472+03	1.2289+02	1.4407+03
37	1.2683+03	1.1201+03	1.2969+03	1.3518+03	1.2531+02	1.4475+03
38	1.1413+03	9.9286+02	1.1774+03	1.2145+03	1.2637+02	1.3253+03
39	1.1166+03	9.6275+02	1.1439+03	1.1797+03	1.2606+02	1.2893+03
40	1.6261+03	1.4022+03	1.5662+03	1.5420+03	1.1642+02	1.5825+03

## 300KW TRANSIENT DATA

	1036	1039	1045	1051	1057	1060
	HCAT	HCAT	HCAT	HCAT	HCAT	HCAT
1	1.1724+03	1.0885+03	1.1635+03	1.1266+03	1.1610+03	1.1711+03
2	1.0146+03	9.4868+02	1.0092+03	9.8984+02	1.0381+03	1.0411+03
3	8.1832+02	7.9522+02	8.5480+02	8.6904+02	9.3650+02	9.3524+02
4	5.7849+02	5.3229+02	6.3312+02	6.1445+02	6.8452+02	7.0441+02
5	6.5366+02	6.3035+02	7.1074+02	7.0722+02	7.7122+02	7.9043+02
6	9.8018+02	9.9614+02	1.0648+03	1.1032+03	1.1922+03	1.1622+03
7	6.5538+02	6.9838+02	6.4711+02	6.9970+02	6.9926+02	6.4753+02
8	6.8977+02	7.3403+02	6.8179+02	7.3445+02	7.3445+02	6.8683+02
9	6.2930+02	5.7580+02	6.4694+02	6.2760+02	6.7314+02	6.8574+02
10	6.0697+02	5.7409+02	6.0917+02	6.2149+02	6.5129+02	6.2017+02
11	7.0626+02	6.3111+02	6.8839+02	6.5666+02	6.6942+02	6.6810+02
12	6.4131+02	6.4677+02	6.5239+02	6.5943+02	6.6339+02	6.4803+02
13	7.1526+02	7.4844+02	7.5558+02	7.9396+02	7.8514+02	7.3962+02
14	7.1959+02	7.5529+02	7.5965+02	7.9997+02	7.8989+02	7.4983+02
15	5.4223+02	4.1435+02	4.9867+02	4.4191+02	4.5115+02	4.6479+02
16	6.0754+02	6.5362+02	6.0285+02	6.5802+02	6.6638+02	6.0798+02
17	6.7860+02	7.2538+02	6.7230+02	7.2706+02	7.4302+02	6.8826+02
18	7.9560+02	8.4276+02	7.8594+02	8.4020+02	8.4756+02	7.9854+02
19	9.2411+02	9.6359+02	9.2033+02	9.6737+02	9.6485+02	9.0353+02
20	1.0012+03	1.0407+03	9.9824+02	1.0449+03	1.0411+03	9.7850+02
21	1.0700+03	1.1102+03	1.0673+03	1.1133+03	1.1093+03	1.0435+03
22	1.1381+03	1.1784+03	1.1364+03	1.1815+03	1.1767+03	1.1075+03
23	1.2111+03	1.2514+03	1.2090+03	1.2540+03	1.2487+03	1.1756+03
24	1.3032+03	1.3449+03	1.3028+03	1.3467+03	1.3405+03	1.2620+03
25	1.3832+03	1.4240+03	1.3819+03	1.4253+03	1.4187+03	1.3349+03
26	1.3421+03	1.3526+03	1.3707+03	1.3913+03	1.4107+03	1.3904+03
27	1.2666+03	1.3061+03	1.2640+03	1.3083+03	1.3008+03	1.2223+03
28	1.3581+03	1.3986+03	1.3565+03	1.4003+03	1.3931+03	1.3105+03
29	1.4282+03	1.4709+03	1.4282+03	1.4722+03	1.4648+03	1.3782+03
30	1.3641+03	1.3756+03	1.3983+03	1.4164+03	1.4393+03	1.4234+03
31	1.4517+03	1.4627+03	1.4825+03	1.5037+03	1.5221+03	1.5010+03
32	1.4836+03	1.4960+03	1.5202+03	1.5373+03	1.5593+03	1.5444+03
33	1.4358+03	1.4248+03	1.4772+03	1.4798+03	1.5199+03	1.5212+03
34	1.3660+03	1.3543+03	1.4141+03	1.4162+03	1.4668+03	1.4743+03
35	1.4441+03	1.4410+03	1.4850+03	1.4942+03	1.5290+03	1.5259+03
36	1.5150+03	1.5128+03	1.5559+03	1.5634+03	1.5976+03	1.5957+03
37	1.5289+03	1.5236+03	1.5720+03	1.5764+03	1.6139+03	1.6139+03
38	1.4230+03	1.4130+03	1.4749+03	1.4776+03	1.5282+03	1.5365+03
39	1.3867+03	1.3766+03	1.4377+03	1.4421+03	1.4922+03	1.5010+03
40	1.5530+03	1.5922+03	1.5596+03	1.6101+03	1.6028+03	1.5415+03



## 300KW TRANSIENT DATA

	1063	1066	1069	1078	1086	1095
	H CAT	HCWO	HCWI	P BARO	W AIR	Q AIR
1	1.1905+03	1.0972+03	1.0025+03	1.4540+01	6.3629-02	1.5612+01
2	1.0780+03	9.0660+02	7.5172+02	1.4540+01	1.3414-01	3.2547+01
3	9.7766+02	8.0379+02	5.0334+02	1.4540+01	1.3519-01	2.9175+01
4	7.2248+02	5.9046+02	2.4512+02	1.4540+01	1.4928-01	2.4729+01
5	8.0807+02	6.6000+02	3.4192+02	1.4540+01	1.4943-01	2.6325+01
6	1.2170+03	1.0648+03	6.3392+02	1.4589+01	3.9411-01	1.0325+02
7	7.0366+02	6.7709+02	6.8087+02	1.4540+01	0.	-0.
8	7.4201+02	7.1008+02	7.1488+02	1.4540+01	0.	-0.
9	6.9688+02	6.2540+02	4.0364+02	1.4540+01	5.4745-02	6.0512+00
10	6.7612+02	5.1394+02	3.2467+02	1.4540+01	2.7659-02	3.0366+00
11	6.7369+02	5.3532+02	5.2124+02	1.4540+01	1.7674-01	2.6394+01
12	6.5283+02	5.4272+02	4.2037+02	1.4687+01	2.8520-01	4.2078+01
13	7.5054+02	6.1005+02	4.2281+02	1.4687+01	2.7268-01	4.2813+01
14	7.5877+02	6.2492+02	4.2640+02	1.4687+01	2.7641-01	4.4656+01
15	4.5071+02	3.3898+02	2.9306+02	1.4687+01	2.4521-01	2.1173+01
16	6.6550+02	6.3237+02	6.4203+02	1.4540+01	0.	-0.
17	7.4260+02	7.0071+02	7.1083+02	1.4540+01	0.	-0.
18	8.5356+02	8.1450+02	8.8480+02	1.4540+01	0.	-0.
19	9.5477+02	9.6065+02	9.6359+02	1.4540+01	0.	-0.
20	1.0302+03	1.0400+03	1.0425+03	1.4540+01	0.	-0.
21	1.0966+03	1.1093+03	1.1115+03	1.4540+01	0.	-0.
22	1.1625+03	1.1789+03	1.1806+03	1.4540+01	0.	-0.
23	1.2317+03	1.2511+03	1.2542+03	1.4540+01	0.	-0.
24	1.3203+03	1.3461+03	1.3483+03	1.4540+01	0.	-0.
25	1.3946+03	1.4252+03	1.4274+03	1.4540+01	0.	0.
26	1.4220+03	1.3958+03	1.2718+03	1.4540+01	6.9171-02	1.3948+01
27	1.2792+03	1.3067+03	1.3101+03	1.4687+01	0.	0.
28	1.3682+03	1.3991+03	1.4016+03	1.4540+01	0.	-0.
29	1.4366+03	1.4709+03	1.4735+03	1.4540+01	0.	0.
30	1.4556+03	1.4210+03	1.2770+03	1.4540+01	6.1797-02	1.8230+01
31	1.5349+03	1.5099+03	1.3916+03	1.4687+01	5.9410-02	1.8211+01
32	1.5743+03	1.5513+03	1.4201+03	1.4540+01	7.5875-02	2.4459+01
33	1.5476+03	1.5092+03	1.3063+03	1.4687+01	1.0857-01	3.6508+01
34	1.5007+03	1.4451+03	1.1933+03	1.4687+01	1.3398-01	4.4775+01
35	1.5536+03	1.5193+03	1.3286+03	1.4687+01	9.6162-02	3.2018+01
36	1.6221+03	1.5942+03	1.4142+03	1.4540+01	9.5930-02	3.3499+01
37	1.6400+03	1.6117+03	1.4220+03	1.4687+01	1.0099-01	3.5963+01
38	1.5629+03	1.5113+03	1.2570+03	1.4540+01	1.3864-01	4.7291+01
39	1.5287+03	1.4718+03	1.2123+03	1.4540+01	1.3915-01	4.7657+01
40	1.5959+03	1.5783+03	1.5356+03	1.4540+01	1.9762-02	5.0899+00

# 300KW TRANSIENT DATA

1099

Q PRI

1	3.2607+01
2	3.7402+01
3	3.1053+01
4	2.4937+01
5	3.4546+01
6	1.2443+02
7	3.3236+00
8	5.2414+00
9	2.5919+00
10	1.3517+01
11	2.8477+01
12	3.8149+01
13	4.9206+01
14	4.3268+01
15	2.8672+01
16	4.9427+00
17	1.0223+01
18	1.1325+01
19	1.0632+01
20	1.2616+01
21	1.2728+01
22	1.3870+01
23	1.0967+01
24	1.4509+01
25	1.5766+01
26	2.9843+01
27	1.6331+01
28	2.2754+01
29	2.4382+01
30	4.2898+01
31	4.8916+01
32	4.9836+01
33	5.6435+01
34	5.8120+01
35	6.4346+01
36	6.2703+01
37	6.4737+01
38	6.4422+01
39	6.2261+01
40	8.0765+01

## 300KW TRANSIENT DATA

	401	402	609	612	614	617
	DATE	TIME	PIT	PIT	PIT/I	POT
1	5.2263+00	8.3500+02	1.7604+03	1.7615+03	1.7537+03	1.7264+03
2	5.2263+00	1.3300+03	1.6551+03	1.6560+03	1.6502+03	1.6299+03
3	5.2263+00	1.3550+03	1.6330+03	1.6336+03	1.6276+03	1.6065+03
4	5.2263+00	1.6330+03	1.6622+03	1.6633+03	1.6576+03	1.6310+03
5	5.2263+00	1.7040+03	1.6861+03	1.6874+03	1.6813+03	1.6503+03
6	5.2263+00	1.7330+03	1.7052+03	1.7062+03	1.6998+03	1.6720+03
7	5.2263+00	1.8020+03	1.7231+03	1.7247+03	1.7173+03	1.6884+03
8	5.2263+00	2.0310+03	1.8095+03	1.8106+03	1.8029+03	1.7693+03
9	5.2263+00	2.1470+03	1.8380+03	1.8394+03	1.8320+03	1.7933+03
10	5.2263+00	2.2060+03	1.8339+03	1.8348+03	1.8275+03	1.7818+03
11	5.2263+00	2.3260+03	1.8486+03	1.8497+03	1.8403+03	1.8092+03
12	5.2263+00	2.3460+03	1.8503+03	1.8517+03	1.8415+03	1.8098+03
13	5.2363+00	2.4500+02	1.8425+03	1.8436+03	1.8372+03	1.8009+03
14	5.2663+00	3.1400+02	1.8558+03	1.8572+03	1.8517+03	1.8218+03
15	5.2363+00	6.3000+02	1.7942+03	1.7953+03	1.7907+03	1.7635+03
16	5.2363+00	9.3000+02	1.6794+03	1.6803+03	1.6735+03	1.6539+03
17	5.2363+00	1.1300+03	1.6278+03	1.6286+03	1.6231+03	1.6031+03
18	5.2363+00	1.2100+03	1.5917+03	1.5920+03	1.5872+03	1.5811+03
19	5.2363+00	1.2450+03	1.5994+03	1.6002+03	1.5950+03	1.5914+03
20	5.2363+00	1.4450+03	1.6534+03	1.6538+03	1.6471+03	1.6394+03
21	5.2363+00	1.5150+03	1.6847+03	1.6856+03	1.6775+03	1.6660+03
22	5.2363+00	1.6500+03	1.7166+03	1.7184+03	1.7111+03	1.6975+03
23	5.2363+00	1.7250+03	1.7189+03	1.7201+03	1.7133+03	1.6915+03
24	5.2363+00	1.8010+03	1.7697+03	1.7697+03	1.7633+03	1.7324+03
25	5.2363+00	1.8300+03	1.8085+03	1.8091+03	1.8024+03	1.7702+03
26	5.2363+00	2.0270+03	1.8488+03	1.8500+03	1.8401+03	1.8203+03
27	5.2363+00	2.1180+03	1.8457+03	1.8468+03	1.8342+03	1.8064+03
28	5.2363+00	2.1370+03	1.8429+03	1.8438+03	1.8305+03	1.8022+03
29	5.2363+00	2.1520+03	1.8382+03	1.8399+03	1.8264+03	1.7971+03
30	5.2363+00	2.2570+03	1.7904+03	1.7927+03	1.7844+03	1.7580+03
31	5.2363+00	2.3260+03	1.7541+03	1.7557+03	1.7531+03	1.7216+03
32	5.2463+00	1.6000+01	1.7248+03	1.7260+03	1.7277+03	1.6860+03
33	5.2463+00	2.7000+01	1.7146+03	1.7153+03	1.7179+03	1.6854+03
34	5.2463+00	4.3000+01	1.6977+03	1.6990+03	1.7018+03	1.6692+03
35	5.2463+00	2.1300+02	1.6406+03	1.6412+03	1.6436+03	1.6114+03
36	5.2463+00	3.2900+02	1.6394+03	1.6404+03	1.6408+03	1.6206+03
37	5.2463+00	4.0000+02	1.6708+03	1.6712+03	1.6719+03	1.6487+03
38	5.2463+00	4.2600+02	1.7094+03	1.7099+03	1.7092+03	1.6863+03
39	5.2463+00	4.5700+02	1.7722+03	1.7731+03	1.7702+03	1.7472+03
40	5.2463+00	5.2200+02	1.8034+03	1.8042+03	1.7998+03	1.7796+03

## 300KW TRANSIENT DATA

	620	622	625	628	631	637
	POT	POT/I	BP 1	BP 2	BP 3	BP 5
1	1.7264+03	1.7214+03	1.7137+03	1.7153+03	1.7259+03	1.6923+03
2	1.6293+03	1.6254+03	1.6122+03	1.6152+03	1.6188+03	1.5928+03
3	1.6065+03	1.6026+03	1.5912+03	1.5939+03	1.5969+03	1.5714+03
4	1.6305+03	1.6278+03	1.6177+03	1.6184+03	1.6271+03	1.5942+03
5	1.6507+03	1.6471+03	1.6382+03	1.6391+03	1.6509+03	1.6156+03
6	1.6712+03	1.6679+03	1.6574+03	1.6598+03	1.6694+03	1.6342+03
7	1.6881+03	1.6845+03	1.6746+03	1.6773+03	1.6880+03	1.6515+03
8	1.7689+03	1.7646+03	1.7606+03	1.7622+03	1.7733+03	4.9828+02
9	1.7927+03	1.7882+03	1.7846+03	1.7865+03	1.8015+03	1.7634+03
10	1.7811+03	1.7764+03	1.7748+03	1.7762+03	1.7954+03	1.7586+03
11	1.8084+03	1.8023+03	1.8080+03	1.8074+03	1.8192+03	1.7765+03
12	1.8093+03	1.8035+03	1.8149+03	1.8139+03	1.8210+03	1.7791+03
13	1.8009+03	1.7984+03	1.8045+03	1.8034+03	1.8133+03	1.7736+03
14	1.8216+03	1.8200+03	1.8115+03	1.8133+03	1.8227+03	1.7814+03
15	1.7630+03	1.7624+03	1.7527+03	1.7536+03	1.7628+03	1.7267+03
16	1.6536+03	1.6494+03	1.6406+03	1.6406+03	1.6509+03	1.6234+03
17	1.6028+03	1.5990+03	1.5878+03	1.5888+03	1.5980+03	1.5712+03
18	1.5806+03	1.5772+03	1.5660+03	1.5674+03	1.5658+03	1.5478+03
19	1.5909+03	1.5876+03	1.5752+03	1.5767+03	1.5762+03	1.5501+03
20	1.6393+03	1.6331+03	1.6243+03	1.6266+03	1.6268+03	1.5937+03
21	1.6662+03	1.6595+03	1.6504+03	1.6535+03	1.6552+03	1.6209+03
22	1.6975+03	1.6929+03	1.6818+03	1.6853+03	1.6856+03	1.6530+03
23	1.6908+03	1.6872+03	1.6756+03	1.6791+03	1.6842+03	1.6538+03
24	1.7316+03	1.7280+03	1.7216+03	1.7227+03	1.7357+03	1.6960+03
25	1.7692+03	1.7655+03	1.7603+03	1.7609+03	1.7749+03	1.7342+03
26	1.8194+03	1.8129+03	1.8085+03	1.8093+03	1.8189+03	1.7819+03
27	1.8061+03	1.7974+03	1.8023+03	1.8020+03	1.8163+03	1.7796+03
28	1.8013+03	1.7925+03	1.8029+03	1.8009+03	1.8158+03	1.7781+03
29	1.7965+03	1.7879+03	1.8001+03	1.7978+03	1.8118+03	1.7757+03
30	1.7575+03	1.7547+03	1.7444+03	1.7458+03	1.7572+03	1.7295+03
31	1.7218+03	1.7231+03	1.7052+03	1.7058+03	1.7185+03	1.6908+03
32	1.6867+03	1.6913+03	1.6682+03	1.6686+03	1.6874+03	1.6564+03
33	1.6859+03	1.6913+03	1.6670+03	1.6694+03	1.6757+03	1.6482+03
34	1.6688+03	1.6751+03	1.6509+03	1.6535+03	1.6598+03	1.6335+03
35	1.6116+03	1.6162+03	1.5952+03	1.5967+03	1.6043+03	1.5831+03
36	1.6199+03	1.6236+03	1.6050+03	1.6071+03	1.6071+03	1.5760+03
37	1.6486+03	1.6516+03	1.6342+03	1.6366+03	1.6377+03	1.6048+03
38	1.6858+03	1.6878+03	1.6720+03	1.6755+03	1.6772+03	1.6397+03
39	1.7470+03	1.7466+03	1.7327+03	1.7369+03	1.7381+03	1.6973+03
40	1.7791+03	1.7775+03	1.7651+03	1.7687+03	1.7692+03	1.7292+03

## 300KW TRANSIENT DATA

	640	799	649	652	655	658
	BP 6	BP 7	BP 8	BW 1	BW 2	BW 3
1	1.7096+03	1.7200+03	1.7249+03	1.7584+03	1.7607+03	1.7590+03
2	1.6045+03	1.6102+03	1.6167+03	1.6528+03	1.6546+03	1.6518+03
3	1.5824+03	1.5895+03	1.5945+03	1.6304+03	1.6320+03	1.6305+03
4	1.6134+03	1.6213+03	1.6240+03	1.6598+03	1.6611+03	1.6599+03
5	1.6338+03	1.6446+03	1.6478+03	1.6841+03	1.6858+03	1.6842+03
6	1.6495+03	1.6622+03	1.6667+03	1.7033+03	1.7047+03	1.7033+03
7	1.6681+03	1.6807+03	1.6851+03	1.7214+03	1.7234+03	1.7217+03
8	1.7529+03	1.7678+03	1.7739+03	1.8087+03	1.8111+03	1.8087+03
9	1.7775+03	1.7940+03	1.7987+03	1.8375+03	1.8397+03	1.8378+03
10	1.7685+03	1.7858+03	1.7904+03	1.8333+03	1.8356+03	1.8322+03
11	1.7977+03	1.8184+03	1.8237+03	1.8480+03	1.8503+03	1.8492+03
12	1.8023+03	1.8229+03	1.8299+03	1.8497+03	1.8524+03	1.8507+03
13	1.8050+03	1.8142+03	1.8208+03	1.8417+03	1.8440+03	1.8429+03
14	1.8114+03	1.8180+03	1.8236+03	1.8557+03	1.8575+03	1.8564+03
15	1.7533+03	1.7582+03	1.7626+03	1.7934+03	1.7951+03	1.7935+03
16	1.6331+03	1.6450+03	1.6475+03	1.6786+03	1.6795+03	1.6783+03
17	1.5821+03	1.5909+03	1.5922+03	1.6267+03	1.6270+03	1.6259+03
18	1.5560+03	1.5648+03	1.5681+03	1.5914+03	1.5917+03	1.5911+03
19	1.5658+03	1.5746+03	1.5778+03	1.5990+03	1.5995+03	1.5992+03
20	1.6122+03	1.6232+03	1.6276+03	1.6534+03	1.6544+03	1.6542+03
21	1.6382+03	1.6502+03	1.6549+03	1.6842+03	1.6850+03	1.6842+03
22	1.6737+03	1.6815+03	1.6882+03	1.7163+03	1.7166+03	1.7159+03
23	1.6631+03	1.6753+03	1.6825+03	1.7176+03	1.7186+03	1.7165+03
24	1.7153+03	1.7287+03	1.7340+03	1.7679+03	1.7692+03	1.7678+03
25	1.7526+03	1.7685+03	1.7721+03	1.8077+03	1.8096+03	1.8077+03
26	1.7912+03	1.8139+03	1.8194+03	1.8486+03	1.8500+03	1.8483+03
27	1.7802+03	1.8106+03	1.8145+03	1.8450+03	1.8462+03	1.8453+03
28	1.7827+03	1.8128+03	1.8170+03	1.8422+03	1.8435+03	1.8424+03
29	1.7808+03	1.8101+03	1.8142+03	1.8379+03	1.8398+03	1.8381+03
30	1.7420+03	1.7512+03	1.7547+03	1.7907+03	1.7921+03	1.7898+03
31	1.7149+03	1.7125+03	1.7141+03	1.7539+03	1.7555+03	1.7528+03
32	1.6899+03	1.6775+03	1.6801+03	1.7236+03	1.7244+03	1.7222+03
33	1.6822+03	1.6665+03	1.6717+03	1.7129+03	1.7137+03	1.7115+03
34	1.6668+03	1.6504+03	1.6550+03	1.6963+03	1.6972+03	1.6945+03
35	1.6049+03	1.5954+03	1.5980+03	1.6388+03	1.6398+03	1.6373+03
36	1.6144+03	1.6047+03	1.6082+03	1.6383+03	1.6385+03	1.6375+03
37	1.6398+03	1.6335+03	1.6385+03	1.6693+03	1.6698+03	1.6685+03
38	1.6744+03	1.6713+03	1.6779+03	1.7078+03	1.7080+03	1.7077+03
39	1.7307+03	1.7321+03	1.7393+03	1.7711+03	1.7716+03	1.7705+03
40	1.7585+03	1.7644+03	1.7719+03	1.8020+03	1.8031+03	1.8014+03

## 300KW TRANSIENT DATA

	661	664	667	670	673	676
	BW 4	BW 5	BW 6	BW 7	BW 8	BW 9
1	1.7595+03	1.7590+03	1.7592+03	1.7658+03	1.7648+03	1.7651+03
2	1.6513+03	1.6505+03	1.6510+03	1.6579+03	1.6571+03	1.6569+03
3	1.6297+03	1.6289+03	1.6293+03	1.6362+03	1.6354+03	1.6349+03
4	1.6601+03	1.6589+03	1.6594+03	1.6657+03	1.6654+03	1.6654+03
5	1.6845+03	1.6834+03	1.6837+03	1.6906+03	1.6896+03	1.6895+03
6	1.7039+03	1.7024+03	1.7026+03	1.7095+03	1.7087+03	1.7083+03
7	1.7217+03	1.7213+03	1.7216+03	1.7281+03	1.7274+03	1.7278+03
8	1.8098+03	1.8088+03	1.8091+03	1.8154+03	1.8148+03	1.8141+03
9	1.8391+03	1.8383+03	1.8383+03	1.8449+03	1.8442+03	1.8435+03
10	1.8333+03	1.8329+03	1.8332+03	1.8396+03	1.8390+03	1.8381+03
11	1.8499+03	1.8480+03	1.8483+03	1.8551+03	1.8549+03	1.8545+03
12	1.8516+03	1.8493+03	1.8496+03	1.8563+03	1.8564+03	1.8563+03
13	1.8437+03	1.8406+03	1.8412+03	1.8474+03	1.8474+03	1.8476+03
14	1.8575+03	1.8545+03	1.8550+03	1.8618+03	1.8612+03	1.8612+03
15	1.7943+03	1.7921+03	1.7922+03	1.7989+03	1.7989+03	1.7980+03
16	1.6784+03	1.6769+03	1.6771+03	1.6838+03	1.6836+03	1.6833+03
17	1.6261+03	1.6254+03	1.6257+03	1.6323+03	1.6316+03	1.6312+03
18	1.5912+03	1.5897+03	1.5897+03	1.5960+03	1.5959+03	1.5960+03
19	1.5997+03	1.5980+03	1.5983+03	1.6047+03	1.6045+03	1.6043+03
20	1.6539+03	1.6530+03	1.6528+03	1.6598+03	1.6598+03	1.6588+03
21	1.6847+03	1.6837+03	1.6840+03	1.6906+03	1.6899+03	1.6898+03
22	1.7154+03	1.7148+03	1.7151+03	1.7216+03	1.7214+03	1.7213+03
23	1.7168+03	1.7169+03	1.7173+03	1.7240+03	1.7232+03	1.7224+03
24	1.7679+03	1.7672+03	1.7676+03	1.7745+03	1.7739+03	1.7736+03
25	1.8086+03	1.8076+03	1.8082+03	1.8148+03	1.8137+03	1.8140+03
26	1.8494+03	1.8491+03	1.8494+03	1.8559+03	1.8556+03	1.8547+03
27	1.8453+03	1.8449+03	1.8454+03	1.8522+03	1.8519+03	1.8516+03
28	1.8425+03	1.8417+03	1.8420+03	1.8487+03	1.8490+03	1.8488+03
29	1.8384+03	1.8373+03	1.8375+03	1.8446+03	1.8444+03	1.8444+03
30	1.7905+03	1.7860+03	1.7865+03	1.7929+03	1.7929+03	1.7929+03
31	1.7533+03	1.7474+03	1.7477+03	1.7546+03	1.7543+03	1.7550+03
32	1.7231+03	1.7184+03	1.7189+03	1.7254+03	1.7248+03	1.7245+03
33	1.7113+03	1.7076+03	1.7080+03	1.7146+03	1.7139+03	1.7141+03
34	1.6947+03	1.6911+03	1.6914+03	1.6984+03	1.6973+03	1.6973+03
35	1.6369+03	1.6345+03	1.6349+03	1.6414+03	1.6403+03	1.6401+03
36	1.6378+03	1.6348+03	1.6351+03	1.6421+03	1.6408+03	1.6411+03
37	1.6693+03	1.6670+03	1.6671+03	1.6738+03	1.6729+03	1.6729+03
38	1.7083+03	1.7071+03	1.7072+03	1.7137+03	1.7131+03	1.7134+03
39	1.7708+03	1.7700+03	1.7705+03	1.7769+03	1.7757+03	1.7760+03
40	1.8017+03	1.8013+03	1.8019+03	1.8083+03	1.8077+03	1.8072+03

## 300KW TRANSIENT DATA

	679	682	688	691	694	697
	BW 10	BW 11	BW 13	BW 14	BW 15	BW 16
1	1.7651+03	1.7640+03	1.7563+03	1.7570+03	1.7525+03	1.7558+03
2	1.6571+03	1.6548+03	1.6494+03	1.6472+03	1.6451+03	1.6475+03
3	1.6359+03	1.6346+03	1.6276+03	1.6260+03	1.6241+03	1.6251+03
4	1.6659+03	1.6644+03	1.6572+03	1.6562+03	1.6537+03	1.6561+03
5	1.6904+03	1.6883+03	1.6814+03	1.6806+03	1.6787+03	1.6809+03
6	1.7093+03	1.7079+03	1.7007+03	1.7001+03	1.6975+03	1.6996+03
7	1.7278+03	1.7266+03	1.7192+03	1.7178+03	1.7160+03	1.7182+03
8	1.8145+03	1.8138+03	1.8058+03	1.8054+03	1.8034+03	1.8064+03
9	1.8439+03	1.8435+03	1.8355+03	1.8364+03	1.8318+03	1.8346+03
10	1.8379+03	1.8379+03	1.8295+03	1.8303+03	1.8247+03	1.8291+03
11	1.8551+03	1.8546+03	1.8466+03	1.8495+03	1.8452+03	1.8486+03
12	1.8563+03	1.8563+03	1.8485+03	1.8514+03	1.8469+03	1.8500+03
13	1.8474+03	1.8473+03	1.8405+03	1.8425+03	1.8395+03	1.8425+03
14	1.8617+03	1.8609+03	1.8540+03	1.8563+03	1.8523+03	1.8547+03
15	1.7988+03	1.7981+03	1.7912+03	1.7923+03	1.7893+03	1.7914+03
16	1.6838+03	1.6831+03	1.6767+03	1.6767+03	1.6746+03	1.6760+03
17	1.6320+03	1.6315+03	1.6251+03	1.6235+03	1.6219+03	1.6233+03
18	1.5964+03	1.5951+03	1.5898+03	1.5889+03	1.5878+03	1.5888+03
19	1.6052+03	1.6045+03	1.5981+03	1.5982+03	1.5971+03	1.5979+03
20	1.6604+03	1.6591+03	1.6525+03	1.6518+03	1.6509+03	1.6528+03
21	1.6906+03	1.6894+03	1.6826+03	1.6818+03	1.6798+03	1.6817+03
22	1.7216+03	1.7207+03	1.7138+03	1.7130+03	1.7106+03	1.7133+03
23	1.7237+03	1.7216+03	1.7151+03	1.7126+03	1.7110+03	1.7126+03
24	1.7737+03	1.7730+03	1.7654+03	1.7654+03	1.7628+03	1.7657+03
25	1.8134+03	1.8131+03	1.8053+03	1.8050+03	1.8039+03	1.8050+03
26	1.8556+03	1.8548+03	1.8468+03	1.8472+03	1.8452+03	1.8469+03
27	1.8522+03	1.8519+03	1.8433+03	1.8453+03	1.8419+03	1.8442+03
28	1.8487+03	1.8485+03	1.8413+03	1.8430+03	1.8396+03	1.8424+03
29	1.8444+03	1.8438+03	1.8365+03	1.8388+03	1.8356+03	1.8382+03
30	1.7920+03	1.7917+03	1.7883+03	1.7888+03	1.7868+03	1.7880+03
31	1.7540+03	1.7531+03	1.7508+03	1.7506+03	1.7489+03	1.7500+03
32	1.7252+03	1.7245+03	1.7203+03	1.7196+03	1.7171+03	1.7187+03
33	1.7130+03	1.7122+03	1.7095+03	1.7083+03	1.7057+03	1.7068+03
34	1.6971+03	1.6957+03	1.6926+03	1.6904+03	1.6891+03	1.6904+03
35	1.6409+03	1.6393+03	1.6351+03	1.6341+03	1.6306+03	1.6322+03
36	1.6414+03	1.6405+03	1.6354+03	1.6347+03	1.6331+03	1.6344+03
37	1.6738+03	1.6730+03	1.6668+03	1.6663+03	1.6644+03	1.6656+03
38	1.7139+03	1.7125+03	1.7051+03	1.7048+03	1.7027+03	1.7041+03
39	1.7761+03	1.7750+03	1.7678+03	1.7675+03	1.7656+03	1.7672+03
40	1.8078+03	1.8061+03	1.7990+03	1.7984+03	1.7973+03	1.7987+03

# 300KW TRANSIENT DATA

	700	703	706	709	712	718
	BW 17	BW 18	BW 19	BW 20	BW 21	BW 23
1	1.7527+03	1.7503+03	1.7522+03	1.7473+03	1.7511+03	1.7548+03
2	1.6415+03	1.6420+03	1.6425+03	1.6343+03	1.6394+03	1.6431+03
3	1.6199+03	1.6207+03	1.6201+03	1.6130+03	1.6175+03	1.6212+03
4	1.6524+03	1.6520+03	1.6522+03	1.6479+03	1.6508+03	1.6549+03
5	1.6769+03	1.6767+03	1.6766+03	1.6713+03	1.6753+03	1.6794+03
6	1.6961+03	1.6950+03	1.6947+03	1.6893+03	1.6929+03	1.6973+03
7	1.7138+03	1.7132+03	1.7141+03	1.7073+03	1.7119+03	1.7157+03
8	1.8019+03	1.8012+03	1.8011+03	1.7958+03	1.8006+03	1.8035+03
9	1.8318+03	1.8283+03	1.8293+03	1.8257+03	1.8289+03	1.8314+03
10	1.8256+03	1.8219+03	1.8227+03	1.8184+03	1.8217+03	1.8240+03
11	1.8475+03	1.8452+03	1.8472+03	1.8455+03	1.8491+03	1.8517+03
12	1.8496+03	1.8474+03	1.8490+03	1.8479+03	1.8511+03	1.8541+03
13	1.8420+03	1.8389+03	1.8414+03	1.8405+03	1.8442+03	1.8451+03
14	1.8526+03	1.8498+03	1.8516+03	1.8482+03	1.8527+03	1.8531+03
15	1.7896+03	1.7873+03	1.7889+03	1.7854+03	1.7893+03	1.7911+03
16	1.6738+03	1.6727+03	1.6736+03	1.6696+03	1.6722+03	1.6763+03
17	1.6204+03	1.6195+03	1.6201+03	1.6159+03	1.6186+03	1.6233+03
18	1.5867+03	1.5863+03	1.5875+03	1.5837+03	1.5870+03	1.5918+03
19	1.5969+03	1.5959+03	1.5968+03	1.5948+03	1.5963+03	1.6016+03
20	1.6494+03	1.6491+03	1.6489+03	1.6454+03	1.6480+03	1.6541+03
21	1.6791+03	1.6772+03	1.6785+03	1.6735+03	1.6767+03	1.6825+03
22	1.7097+03	1.7090+03	1.7094+03	1.7046+03	1.7082+03	1.7129+03
23	1.7081+03	1.7073+03	1.7068+03	1.6995+03	1.7044+03	1.7083+03
24	1.7620+03	1.7602+03	1.7624+03	1.7565+03	1.7599+03	1.7635+03
25	1.8017+03	1.8007+03	1.8007+03	1.7957+03	1.7999+03	1.8032+03
26	1.8448+03	1.8423+03	1.8438+03	1.8404+03	1.8446+03	1.8482+03
27	1.8420+03	1.8392+03	1.8409+03	1.8374+03	1.8416+03	1.8448+03
28	1.8412+03	1.8385+03	1.8405+03	1.8388+03	1.8425+03	1.8459+03
29	1.8370+03	1.8340+03	1.8368+03	1.8349+03	1.8385+03	1.8418+03
30	1.7847+03	1.7836+03	1.7847+03	1.7800+03	1.7852+03	1.7836+03
31	1.7471+03	1.7460+03	1.7464+03	1.7419+03	1.7460+03	1.7441+03
32	1.7149+03	1.7130+03	1.7139+03	1.7087+03	1.7122+03	1.7115+03
33	1.7022+03	1.7011+03	1.7015+03	1.6948+03	1.6995+03	1.6992+03
34	1.6851+03	1.6853+03	1.6848+03	1.6776+03	1.6826+03	1.6827+03
35	1.6293+03	1.6272+03	1.6274+03	1.6221+03	1.6250+03	1.6258+03
36	1.6320+03	1.6312+03	1.6307+03	1.6273+03	1.6302+03	1.6332+03
37	1.6634+03	1.6616+03	1.6615+03	1.6581+03	1.6602+03	1.6633+03
38	1.7013+03	1.7000+03	1.6998+03	1.6947+03	1.6990+03	1.7027+03
39	1.7634+03	1.7618+03	1.7625+03	1.7568+03	1.7612+03	1.7648+03
40	1.7951+03	1.7941+03	1.7939+03	1.7892+03	1.7939+03	1.7972+03



## 300KW TRANSIENT DATA

	721	727	730	733	736	742
	BW 24	BW 26	BW 27	BW 28	BW 29	BW 31
1	1.7527+03	1.7525+03	1.7524+03	1.7521+03	1.7470+03	1.7429+03
2	1.6410+03	1.6421+03	1.6420+03	1.6387+03	1.6380+03	1.6333+03
3	1.6194+03	1.6201+03	1.6196+03	1.6180+03	1.6149+03	1.6115+03
4	1.6532+03	1.6504+03	1.6522+03	1.6515+03	1.6472+03	1.6440+03
5	1.6778+03	1.6751+03	1.6758+03	1.6759+03	1.6711+03	1.6679+03
6	1.6949+03	1.6941+03	1.6944+03	1.6927+03	1.6889+03	1.6856+03
7	1.7142+03	1.7140+03	1.7137+03	1.7112+03	1.7084+03	1.7039+03
8	1.8010+03	1.8010+03	1.8011+03	1.7997+03	1.7955+03	1.7913+03
9	1.8278+03	1.8285+03	1.8283+03	1.8281+03	1.8235+03	1.8188+03
10	1.8198+03	1.8198+03	1.8206+03	1.8215+03	1.8162+03	1.8114+03
11	1.8515+03	1.8511+03	1.8517+03	1.8512+03	1.8451+03	1.8404+03
12	1.8538+03	1.8533+03	1.8538+03	1.8536+03	1.8479+03	1.8437+03
13	1.8450+03	1.8450+03	1.8453+03	1.8453+03	1.8389+03	1.8367+03
14	1.8511+03	1.8510+03	1.8513+03	1.8502+03	1.8465+03	1.8433+03
15	1.7896+03	1.7897+03	1.7902+03	1.7891+03	1.7847+03	1.7816+03
16	1.6744+03	1.6750+03	1.6752+03	1.6736+03	1.6703+03	1.6664+03
17	1.6210+03	1.6200+03	1.6210+03	1.6207+03	1.6167+03	1.6132+03
18	1.5916+03	1.5907+03	1.5915+03	1.5900+03	1.5863+03	1.5844+03
19	1.6013+03	1.6008+03	1.6019+03	1.6001+03	1.5954+03	1.5932+03
20	1.6520+03	1.6522+03	1.6522+03	1.6509+03	1.6472+03	1.6439+03
21	1.6794+03	1.6794+03	1.6797+03	1.6786+03	1.6753+03	1.6711+03
22	1.7113+03	1.7120+03	1.7118+03	1.7094+03	1.7068+03	1.7025+03
23	1.7065+03	1.7065+03	1.7064+03	1.7043+03	1.7020+03	1.6974+03
24	1.7613+03	1.7612+03	1.7601+03	1.7607+03	1.7566+03	1.7519+03
25	1.8008+03	1.8001+03	1.8002+03	1.7990+03	1.7955+03	1.7908+03
26	1.8462+03	1.8462+03	1.8466+03	1.8455+03	1.8404+03	1.8354+03
27	1.8426+03	1.8421+03	1.8428+03	1.8420+03	1.8364+03	1.8318+03
28	1.8448+03	1.8445+03	1.8454+03	1.8448+03	1.8379+03	1.8342+03
29	1.8413+03	1.8410+03	1.8409+03	1.8407+03	1.8343+03	1.8310+03
30	1.7817+03	1.7814+03	1.7822+03	1.7805+03	1.7797+03	1.7768+03
31	1.7420+03	1.7420+03	1.7420+03	1.7415+03	1.7418+03	1.7386+03
32	1.7089+03	1.7088+03	1.7093+03	1.7081+03	1.7085+03	1.7042+03
33	1.6954+03	1.6972+03	1.6970+03	1.6949+03	1.6967+03	1.6924+03
34	1.6800+03	1.6809+03	1.6809+03	1.6769+03	1.6799+03	1.6760+03
35	1.6245+03	1.6230+03	1.6237+03	1.6208+03	1.6222+03	1.6187+03
36	1.6322+03	1.6318+03	1.6316+03	1.6303+03	1.6286+03	1.6261+03
37	1.6620+03	1.6625+03	1.6625+03	1.6607+03	1.6584+03	1.6553+03
38	1.7015+03	1.7016+03	1.7013+03	1.6989+03	1.6968+03	1.6931+03
39	1.7636+03	1.7645+03	1.7639+03	1.7592+03	1.7593+03	1.7540+03
40	1.7964+03	1.7967+03	1.7958+03	1.7927+03	1.7916+03	1.7859+03

# 300KW TRANSIENT DATA

	745	748	754	757	760	763
	BW 32	BW 33	BW 35	BW 36	BW 37	BW 38
1	1.7408+03	1.7386+03	1.7413+03	1.7481+03	1.7432+03	1.7446+03
2	1.6340+03	1.6291+03	1.6357+03	1.6391+03	1.6383+03	1.6395+03
3	1.6115+03	1.6076+03	1.6130+03	1.6177+03	1.6180+03	1.6182+03
4	1.6409+03	1.6398+03	1.6401+03	1.6478+03	1.6425+03	1.6445+03
5	1.6652+03	1.6636+03	1.6635+03	1.6724+03	1.6658+03	1.6678+03
6	1.6832+03	1.6815+03	1.6821+03	1.6901+03	1.6847+03	1.6873+03
7	1.7033+03	1.6990+03	1.7018+03	1.7083+03	1.7030+03	1.7059+03
8	1.7897+03	1.7870+03	1.7891+03	1.7965+03	1.7902+03	1.7927+03
9	1.8155+03	1.8147+03	1.8142+03	1.8233+03	1.8153+03	1.8170+03
10	1.8078+03	1.8073+03	1.8059+03	1.8142+03	1.8060+03	1.8080+03
11	1.8392+03	1.8387+03	1.8390+03	1.8475+03	1.8387+03	1.8427+03
12	1.8437+03	1.8440+03	1.8460+03	1.8521+03	1.8465+03	1.8488+03
13	1.8364+03	1.8371+03	1.8375+03	1.8420+03	1.8353+03	1.8384+03
14	1.8419+03	1.8408+03	1.8422+03	1.8472+03	1.8406+03	1.8438+03
15	1.7803+03	1.7792+03	1.7808+03	1.7861+03	1.7806+03	1.7832+03
16	1.6656+03	1.6637+03	1.6655+03	1.6712+03	1.6668+03	1.6699+03
17	1.6115+03	1.6090+03	1.6106+03	1.6167+03	1.6118+03	1.6146+03
18	1.5845+03	1.5829+03	1.5860+03	1.5910+03	1.5903+03	1.5911+03
19	1.5935+03	1.5922+03	1.5950+03	1.6008+03	1.5992+03	1.6006+03
20	1.6438+03	1.6415+03	1.6452+03	1.6514+03	1.6499+03	1.6509+03
21	1.6715+03	1.6679+03	1.6726+03	1.6786+03	1.6764+03	1.6782+03
22	1.7042+03	1.7006+03	1.7060+03	1.7101+03	1.7094+03	1.7109+03
23	1.6982+03	1.6923+03	1.6995+03	1.7038+03	1.7029+03	1.7041+03
24	1.7509+03	1.7478+03	1.7502+03	1.7568+03	1.7508+03	1.7522+03
25	1.7894+03	1.7869+03	1.7886+03	1.7958+03	1.7899+03	1.7924+03
26	1.8347+03	1.8331+03	1.8358+03	1.8429+03	1.8361+03	1.8398+03
27	1.8304+03	1.8286+03	1.8307+03	1.8380+03	1.8309+03	1.8342+03
28	1.8329+03	1.8329+03	1.8332+03	1.8397+03	1.8313+03	1.8353+03
29	1.8304+03	1.8303+03	1.8307+03	1.8381+03	1.8294+03	1.8330+03
30	1.7755+03	1.7737+03	1.7749+03	1.7779+03	1.7723+03	1.7745+03
31	1.7372+03	1.7354+03	1.7365+03	1.7380+03	1.7318+03	1.7340+03
32	1.7023+03	1.6996+03	1.7001+03	1.7024+03	1.6950+03	1.6979+03
33	1.6931+03	1.6885+03	1.6944+03	1.6943+03	1.6924+03	1.6937+03
34	1.6760+03	1.6722+03	1.6773+03	1.6780+03	1.6764+03	1.6780+03
35	1.6172+03	1.6151+03	1.6177+03	1.6209+03	1.6197+03	1.6206+03
36	1.6262+03	1.6249+03	1.6275+03	1.6308+03	1.6298+03	1.6308+03
37	1.6552+03	1.6536+03	1.6568+03	1.6612+03	1.6598+03	1.6610+03
38	1.6941+03	1.6896+03	1.6958+03	1.7003+03	1.6989+03	1.7005+03
39	1.7557+03	1.7510+03	1.7577+03	1.7617+03	1.7607+03	1.7625+03
40	1.7872+03	1.7829+03	1.7902+03	1.7943+03	1.7930+03	1.7944+03

# 300KW TRANSIENT DATA

	766	769	772	775	778	781
	BW 39	BW 40	BW 41	BW 42	BW 43	BW 44
1	1.7451+03	1.7438+03	1.7456+03	1.7427+03	1.7442+03	1.7338+03
2	1.6400+03	1.6394+03	1.6373+03	1.6354+03	1.6368+03	1.6282+03
3	1.6178+03	1.6172+03	1.6161+03	1.6151+03	1.6161+03	1.6067+03
4	1.6443+03	1.6433+03	1.6451+03	1.6425+03	1.6445+03	1.6361+03
5	1.6658+03	1.6631+03	1.6686+03	1.6658+03	1.6678+03	1.6590+03
6	1.6858+03	1.6846+03	1.6866+03	1.6839+03	1.6855+03	1.6770+03
7	1.7052+03	1.7038+03	1.7057+03	1.7024+03	1.7051+03	1.6945+03
8	1.7926+03	1.7916+03	1.7936+03	1.7908+03	1.7924+03	1.7819+03
9	1.8180+03	1.8167+03	1.8200+03	1.8153+03	1.8177+03	1.8087+03
10	1.8091+03	1.8068+03	1.8115+03	1.8074+03	1.8076+03	1.8001+03
11	1.8424+03	1.8413+03	1.8459+03	1.8407+03	1.8432+03	1.8314+03
12	1.8491+03	1.8488+03	1.8511+03	1.8476+03	1.8493+03	1.8397+03
13	1.8391+03	1.8386+03	1.8414+03	1.8372+03	1.8389+03	1.8308+03
14	1.8441+03	1.8440+03	1.8448+03	1.8410+03	1.8432+03	1.8347+03
15	1.7834+03	1.7823+03	1.7843+03	1.7812+03	1.7826+03	1.7742+03
16	1.6696+03	1.6680+03	1.6691+03	1.6656+03	1.6683+03	1.6603+03
17	1.6146+03	1.6131+03	1.6146+03	1.6118+03	1.6139+03	1.6055+03
18	1.5907+03	1.5897+03	1.5895+03	1.5890+03	1.5893+03	1.5827+03
19	1.6009+03	1.6000+03	1.5996+03	1.5987+03	1.5993+03	1.5919+03
20	1.6517+03	1.6506+03	1.6491+03	1.6483+03	1.6498+03	1.6406+03
21	1.6780+03	1.6780+03	1.6764+03	1.6751+03	1.6774+03	1.6671+03
22	1.7107+03	1.7101+03	1.7083+03	1.7065+03	1.7088+03	1.6988+03
23	1.7045+03	1.7041+03	1.7017+03	1.7005+03	1.7025+03	1.6913+03
24	1.7533+03	1.7512+03	1.7536+03	1.7508+03	1.7527+03	1.7430+03
25	1.7915+03	1.7909+03	1.7927+03	1.7896+03	1.7919+03	1.7810+03
26	1.8406+03	1.8401+03	1.8403+03	1.8361+03	1.8390+03	1.8276+03
27	1.8352+03	1.8347+03	1.8361+03	1.8320+03	1.8347+03	1.8226+03
28	1.8366+03	1.8358+03	1.8392+03	1.8333+03	1.8370+03	1.8256+03
29	1.8339+03	1.8334+03	1.8362+03	1.8305+03	1.8344+03	1.8229+03
30	1.7751+03	1.7738+03	1.7754+03	1.7721+03	1.7746+03	1.7686+03
31	1.7348+03	1.7334+03	1.7363+03	1.7329+03	1.7350+03	1.7300+03
32	1.6985+03	1.6960+03	1.7000+03	1.6955+03	1.6979+03	1.6929+03
33	1.6941+03	1.6933+03	1.6919+03	1.6903+03	1.6919+03	1.6861+03
34	1.6785+03	1.6777+03	1.6758+03	1.6734+03	1.6755+03	1.6700+03
35	1.6197+03	1.6185+03	1.6180+03	1.6171+03	1.6195+03	1.6130+03
36	1.6302+03	1.6302+03	1.6292+03	1.6297+03	1.6298+03	1.6233+03
37	1.6601+03	1.6606+03	1.6589+03	1.6575+03	1.6594+03	1.6520+03
38	1.7002+03	1.6999+03	1.6978+03	1.6965+03	1.6976+03	1.6885+03
39	1.7620+03	1.7622+03	1.7592+03	1.7573+03	1.7592+03	1.7494+03
40	1.7943+03	1.7950+03	1.7924+03	1.7902+03	1.7918+03	1.7813+03

## 300KW TRANSIENT DATA

	784	787	790	802	808	811
	BW 45	BW 46	BW 47	BW 50	BW 52	BW 53
1	1.7351+03	1.7373+03	1.7316+03	1.7346+03	1.7303+03	1.7313+03
2	1.6303+03	1.6344+03	1.6280+03	1.6315+03	1.6293+03	1.6309+03
3	1.6083+03	1.6117+03	1.6068+03	1.6097+03	1.6078+03	1.6091+03
4	1.6366+03	1.6376+03	1.6347+03	1.6369+03	1.6348+03	1.6358+03
5	1.6599+03	1.6582+03	1.6553+03	1.6586+03	1.6538+03	1.6565+03
6	1.6784+03	1.6792+03	1.6749+03	1.6781+03	1.6748+03	1.6768+03
7	1.6962+03	1.6970+03	1.6921+03	1.6956+03	1.6913+03	1.6938+03
8	1.7837+03	1.7842+03	1.7793+03	1.7818+03	1.7774+03	1.7775+03
9	1.8102+03	1.8097+03	1.8058+03	1.8073+03	1.8030+03	1.8025+03
10	1.8014+03	1.8001+03	1.7971+03	1.7989+03	1.7931+03	1.7932+03
11	1.8320+03	1.8333+03	1.8275+03	1.8287+03	1.8248+03	1.8220+03
12	1.8398+03	1.8414+03	1.8366+03	1.8372+03	1.8327+03	1.8294+03
13	1.8311+03	1.8322+03	1.8274+03	1.8275+03	1.8232+03	1.8202+03
14	1.8366+03	1.8382+03	1.8329+03	1.8346+03	1.8315+03	1.8302+03
15	1.7756+03	1.7768+03	1.7726+03	1.7740+03	1.7710+03	1.7702+03
16	1.6610+03	1.6622+03	1.6584+03	1.6598+03	1.6569+03	1.6571+03
17	1.6068+03	1.6083+03	1.6043+03	1.6064+03	1.6046+03	1.6055+03
18	1.5832+03	1.5855+03	1.5819+03	1.5842+03	1.5829+03	1.5839+03
19	1.5919+03	1.5945+03	1.5914+03	1.5928+03	1.5922+03	1.5928+03
20	1.6417+03	1.6443+03	1.6404+03	1.6420+03	1.6410+03	1.6420+03
21	1.6694+03	1.6713+03	1.6673+03	1.6694+03	1.6675+03	1.6689+03
22	1.7010+03	1.7046+03	1.6988+03	1.7012+03	1.6994+03	1.7010+03
23	1.6947+03	1.6974+03	1.6918+03	1.6945+03	1.6923+03	1.6947+03
24	1.7451+03	1.7446+03	1.7411+03	1.7421+03	1.7384+03	1.7392+03
25	1.7834+03	1.7836+03	1.7793+03	1.7803+03	1.7768+03	1.7769+03
26	1.8295+03	1.8315+03	1.8261+03	1.8269+03	1.8245+03	1.8239+03
27	1.8247+03	1.8260+03	1.8207+03	1.8218+03	1.8179+03	1.8171+03
28	1.8268+03	1.8275+03	1.8229+03	1.8231+03	1.8184+03	1.8170+03
29	1.8245+03	1.8253+03	1.8195+03	1.8201+03	1.8151+03	1.8129+03
30	1.7702+03	1.7716+03	1.7669+03	1.7685+03	1.7649+03	1.7652+03
31	1.7319+03	1.7322+03	1.7283+03	1.7300+03	1.7262+03	1.7263+03
32	1.6953+03	1.6940+03	1.6903+03	1.6921+03	1.6876+03	1.6884+03
33	1.6899+03	1.6921+03	1.6866+03	1.6899+03	1.6872+03	1.6886+03
34	1.6730+03	1.6749+03	1.6706+03	1.6732+03	1.6717+03	1.6724+03
35	1.6153+03	1.6159+03	1.6129+03	1.6155+03	1.6135+03	1.6148+03
36	1.6249+03	1.6261+03	1.6235+03	1.6249+03	1.6238+03	1.6244+03
37	1.6534+03	1.6549+03	1.6521+03	1.6534+03	1.6521+03	1.6529+03
38	1.6917+03	1.6933+03	1.6887+03	1.6917+03	1.6898+03	1.6914+03
39	1.7528+03	1.7552+03	1.7498+03	1.7519+03	1.7502+03	1.7519+03
40	1.7849+03	1.7873+03	1.7815+03	1.7838+03	1.7823+03	1.7840+03

## 300KW TRANSIENT DATA

	814	817	820	823	829	643
	BW 54	BW 55	BW 56	BW 57	BW 59	BW 60
1	1.7322+03	1.7381+03	1.7378+03	1.7359+03	1.7356+03	1.7392+03
2	1.6335+03	1.6366+03	1.6376+03	1.6370+03	1.6378+03	1.6371+03
3	1.6107+03	1.6153+03	1.6169+03	1.6153+03	1.6161+03	1.6159+03
4	1.6364+03	1.6425+03	1.6419+03	1.6404+03	1.6412+03	1.6424+03
5	1.6548+03	1.6634+03	1.6628+03	1.6609+03	1.6594+03	1.6612+03
6	1.6776+03	1.6836+03	1.6833+03	1.6820+03	1.6819+03	1.6831+03
7	1.6942+03	1.7012+03	1.7014+03	1.7001+03	1.6988+03	1.7003+03
8	1.7786+03	1.7850+03	1.7834+03	1.7817+03	1.7820+03	1.7861+03
9	1.8031+03	1.8095+03	1.8076+03	1.8053+03	1.8059+03	1.8105+03
10	1.7928+03	1.7987+03	1.7969+03	1.7941+03	1.7943+03	1.7997+03
11	1.8245+03	1.8315+03	1.8249+03	1.8256+03	1.8267+03	1.8340+03
12	1.8309+03	1.8366+03	1.8286+03	1.8296+03	1.8307+03	1.8398+03
13	1.8213+03	1.8263+03	1.8180+03	1.8185+03	1.8208+03	1.8294+03
14	1.8330+03	1.8364+03	1.8333+03	1.8323+03	1.8342+03	1.8384+03
15	1.7721+03	1.7768+03	1.7739+03	1.7730+03	1.7744+03	1.7782+03
16	1.6579+03	1.6635+03	1.6612+03	1.6615+03	1.6617+03	1.6636+03
17	1.6064+03	1.6121+03	1.6112+03	1.6102+03	1.6117+03	1.6118+03
18	1.5842+03	1.5895+03	1.5895+03	1.5887+03	1.5887+03	1.5890+03
19	1.5935+03	1.5988+03	1.5993+03	1.5988+03	1.5988+03	1.5987+03
20	1.6435+03	1.6488+03	1.6495+03	1.6482+03	1.6486+03	1.6488+03
21	1.6703+03	1.6761+03	1.6762+03	1.6753+03	1.6758+03	1.6761+03
22	1.7036+03	1.7080+03	1.7083+03	1.7077+03	1.7081+03	1.7081+03
23	1.6967+03	1.7016+03	1.7022+03	1.7013+03	1.7025+03	1.7019+03
24	1.7392+03	1.7468+03	1.7446+03	1.7433+03	1.7422+03	1.7460+03
25	1.7776+03	1.7850+03	1.7828+03	1.7812+03	1.7806+03	1.7850+03
26	1.8262+03	1.8337+03	1.8300+03	1.8292+03	1.8306+03	1.8345+03
27	1.8188+03	1.8264+03	1.8206+03	1.8211+03	1.8225+03	1.8274+03
28	1.8185+03	1.8255+03	1.8172+03	1.8186+03	1.8210+03	1.8274+03
29	1.8148+03	1.8223+03	1.8129+03	1.8148+03	1.8169+03	1.8245+03
30	1.7658+03	1.7683+03	1.7658+03	1.7655+03	1.7655+03	1.7690+03
31	1.7268+03	1.7286+03	1.7271+03	1.7256+03	1.7259+03	1.7293+03
32	1.6879+03	1.6915+03	1.6891+03	1.6879+03	1.6871+03	1.6909+03
33	1.6913+03	1.6911+03	1.6919+03	1.6913+03	1.6921+03	1.6924+03
34	1.6743+03	1.6755+03	1.6761+03	1.6753+03	1.6760+03	1.6761+03
35	1.6148+03	1.6188+03	1.6190+03	1.6179+03	1.6172+03	1.6180+03
36	1.6256+03	1.6292+03	1.6295+03	1.6284+03	1.6284+03	1.6292+03
37	1.6547+03	1.6585+03	1.6593+03	1.6580+03	1.6588+03	1.6589+03
38	1.6931+03	1.6976+03	1.6987+03	1.6976+03	1.6978+03	1.6983+03
39	1.7546+03	1.7593+03	1.7603+03	1.7587+03	1.7592+03	1.7600+03
40	1.7867+03	1.7919+03	1.7924+03	1.7921+03	1.7919+03	1.7930+03

## 300KW TRANSIENT DATA

	646	398	832	838	841	845
	BW 61	BW 62	BW 63	BW 65	PFST	PFMT
1	1.7359+03	1.7346+03	1.7265+03	1.7294+03	1.7253+03	2.4697+02
2	1.6354+03	1.6354+03	1.6275+03	1.6327+03	1.6303+03	2.4155+02
3	1.6145+03	1.6145+03	1.6063+03	1.6097+03	1.8952+02	6.3304+02
4	1.6411+03	1.6408+03	1.6332+03	1.6348+03	1.6323+03	2.3571+02
5	1.6599+03	1.6607+03	1.6514+03	1.6535+03	1.6504+03	2.3647+02
6	1.6812+03	1.6809+03	1.6728+03	1.6760+03	1.6706+03	2.3815+02
7	1.6980+03	1.6982+03	1.6896+03	1.6926+03	1.6858+03	2.4004+02
8	1.7822+03	1.7801+03	1.7730+03	1.7750+03	1.7678+03	2.5054+02
9	1.8064+03	1.8036+03	1.7978+03	1.7989+03	1.7912+03	2.5566+02
10	1.7966+03	1.7924+03	1.7879+03	1.7879+03	1.7801+03	2.5553+02
11	1.8262+03	1.8242+03	1.8172+03	1.8184+03	1.8061+03	2.5945+02
12	1.8308+03	1.8286+03	1.8233+03	1.8231+03	1.8071+03	2.6033+02
13	1.8199+03	1.8178+03	1.8139+03	1.8144+03	1.8039+03	2.6006+02
14	1.8336+03	1.8319+03	1.8257+03	1.8288+03	1.8261+03	2.5962+02
15	1.7741+03	1.7730+03	1.7665+03	1.7685+03	1.7682+03	2.5131+02
16	1.6604+03	1.6609+03	1.6536+03	1.6565+03	1.6544+03	2.4529+02
17	1.6108+03	1.6113+03	1.6030+03	1.6055+03	1.6040+03	2.4142+02
18	1.5884+03	1.5882+03	1.5816+03	1.5837+03	1.5794+03	2.4205+02
19	1.5979+03	1.5980+03	1.5906+03	1.5930+03	1.5907+03	2.4151+02
20	1.6478+03	1.6477+03	1.6398+03	1.6423+03	1.9733+03	5.7000+02
21	1.6750+03	1.6750+03	1.6662+03	1.6694+03	1.6652+03	2.4730+02
22	1.7065+03	1.7061+03	1.6975+03	1.7022+03	1.6974+03	2.5597+02
23	1.7003+03	1.7001+03	1.6912+03	1.6953+03	1.6902+03	2.5716+02
24	1.7435+03	1.7421+03	1.7349+03	1.7367+03	1.7313+03	2.5782+02
25	1.7817+03	1.7808+03	1.7725+03	1.7747+03	1.7693+03	2.6033+02
26	1.8295+03	1.8297+03	1.8195+03	1.8234+03	1.8173+03	2.7278+02
27	1.8217+03	1.8214+03	1.8119+03	1.8146+03	1.8012+03	2.7627+02
28	1.8194+03	1.8194+03	1.8110+03	1.8123+03	1.7961+03	2.7686+02
29	1.8150+03	1.8159+03	1.8072+03	1.8085+03	1.7917+03	2.7746+02
30	1.7652+03	1.7641+03	1.7609+03	1.7628+03	1.7574+03	2.7493+02
31	1.7269+03	1.7255+03	1.7226+03	1.7251+03	1.7244+03	2.6842+02
32	1.6880+03	1.6877+03	1.6841+03	1.6872+03	1.6945+03	2.5703+02
33	1.6903+03	1.6903+03	1.6856+03	1.6902+03	1.6948+03	2.5553+02
34	1.6739+03	1.6737+03	1.6693+03	1.6733+03	1.6786+03	2.5214+02
35	1.6174+03	1.6180+03	1.6121+03	1.6146+03	1.6195+03	2.3815+02
36	1.6279+03	1.6282+03	1.6228+03	1.6246+03	1.6284+03	2.2723+02
37	1.6577+03	1.6581+03	1.6508+03	1.6539+03	1.6565+03	2.2626+02
38	1.6968+03	1.6963+03	1.6882+03	1.6915+03	1.6925+03	2.2652+02
39	1.7581+03	1.7576+03	1.7489+03	1.7532+03	1.7511+03	2.2938+02
40	1.7907+03	1.7899+03	1.7807+03	1.7853+03	1.7814+03	2.3227+02

## 300KW TRANSIENT DATA

	848	851	854	857	862	865
	PFLO-R	SIT/I	SIT	SIT	SOT	SOT
1	5.3063+00	1.4861+03	1.4898+03	1.4887+03	1.6834+03	1.6845+03
2	5.5594+00	1.3965+03	1.3984+03	1.3975+03	1.5316+03	1.5326+03
3	4.7195-03	1.3639+03	1.3656+03	1.3654+03	1.5062+03	1.5065+03
4	5.5762+00	1.4134+03	1.4145+03	1.4140+03	1.5429+03	1.5436+03
5	5.6502+00	1.4357+03	1.4377+03	1.4363+03	1.5674+03	1.5686+03
6	5.5088+00	1.4632+03	1.4656+03	1.4647+03	1.6033+03	1.6044+03
7	5.4736+00	1.4818+03	1.4845+03	1.4843+03	1.6275+03	1.6293+03
8	5.3492+00	1.5480+03	1.5509+03	1.5505+03	1.7232+03	1.7246+03
9	5.3269+00	1.5876+03	1.5898+03	1.5893+03	1.7400+03	1.7413+03
10	5.3662+00	1.5815+03	1.5844+03	1.5834+03	1.7201+03	1.7211+03
11	8.0530+00	1.5446+03	1.5490+03	1.5480+03	1.7206+03	1.7220+03
12	8.0936+00	1.5325+03	1.5373+03	1.5358+03	1.6961+03	1.6972+03
13	8.0757+00	1.4917+03	1.4931+03	1.4919+03	1.6885+03	1.6899+03
14	8.0566+00	1.5284+03	1.5293+03	1.5277+03	1.7682+03	1.7697+03
15	8.1910+00	1.5356+03	1.5355+03	1.5342+03	1.7146+03	1.7162+03
16	8.3719+00	1.4589+03	1.4614+03	1.4604+03	1.6005+03	1.6018+03
17	7.5841+00	1.4357+03	1.4369+03	1.4369+03	1.5047+03	1.5054+03
18	6.0022+00	1.3975+03	1.3990+03	1.3988+03	1.5023+03	1.5029+03
19	5.4688+00	1.4723+03	1.4745+03	1.4740+03	1.5395+03	1.5407+03
20	9.8314-03	1.4813+03	1.4848+03	1.4848+03	1.5543+03	1.5550+03
21	8.7148+00	1.4925+03	1.4967+03	1.4958+03	1.5578+03	1.5588+03
22	5.5161+00	1.5466+03	1.5487+03	1.5479+03	1.6328+03	1.6341+03
23	5.5826+00	1.4700+03	1.4729+03	1.4727+03	1.5896+03	1.5911+03
24	5.5617+00	1.4244+03	1.4268+03	1.4255+03	1.6852+03	1.6868+03
25	5.4146+00	1.4629+03	1.4656+03	1.4641+03	1.7221+03	1.7234+03
26	1.0575+01	1.6558+03	1.6608+03	1.6598+03	1.7453+03	1.7468+03
27	1.0637+01	1.6294+03	1.6374+03	1.6356+03	1.7186+03	1.7199+03
28	1.0663+01	1.6123+03	1.6197+03	1.6184+03	1.6873+03	1.6889+03
29	1.0681+01	1.5904+03	1.5977+03	1.5969+03	1.6699+03	1.6720+03
30	5.5506+00	1.5269+03	1.5292+03	1.5281+03	1.7245+03	1.7261+03
31	5.5225+00	1.4996+03	1.4966+03	1.4954+03	1.6810+03	1.6826+03
32	5.5320+00	1.4619+03	1.4544+03	1.4537+03	1.6230+03	1.6231+03
33	5.5448+00	1.4531+03	1.4458+03	1.4450+03	1.5867+03	1.5877+03
34	5.5868+00	1.4279+03	1.4197+03	1.4194+03	1.5682+03	1.5688+03
35	5.6942+00	1.3702+03	1.3628+03	1.3630+03	1.5122+03	1.5133+03
36	5.6428+00	1.3475+03	1.3422+03	1.3411+03	1.5489+03	1.5490+03
37	5.4422+00	1.3854+03	1.3805+03	1.3800+03	1.5776+03	1.5782+03
38	5.3810+00	1.4067+03	1.4037+03	1.4026+03	1.6148+03	1.6156+03
39	5.2993+00	1.4394+03	1.4380+03	1.4370+03	1.6721+03	1.6731+03
40	5.4222+00	1.4621+03	1.4628+03	1.4611+03	1.7046+03	1.7056+03

# 300KW TRANSIENT DATA

	598	868	871	877	880	883
	SOT-D	SOT/IS	VSCIT	VCSIT	VCSOT	VCSOT
1	1.6893+03	1.6813+03	1.6810+03	1.6824+03	1.6757+03	1.6749+03
2	1.5365+03	1.5301+03	1.5294+03	1.5311+03	1.5232+03	1.5225+03
3	1.5111+03	1.5041+03	1.5046+03	1.5059+03	1.4980+03	1.4970+03
4	1.5489+03	1.5435+03	1.5414+03	1.5427+03	1.5344+03	1.5336+03
5	1.5747+03	1.5669+03	1.5666+03	1.5679+03	1.5598+03	1.5589+03
6	1.6094+03	1.6020+03	1.6027+03	1.6040+03	1.5967+03	1.5962+03
7	1.6341+03	1.6257+03	1.6270+03	1.6282+03	1.6216+03	1.6207+03
8	1.7305+03	1.7212+03	1.7208+03	1.7230+03	1.7159+03	1.7151+03
9	1.7468+03	1.7377+03	1.7397+03	1.7403+03	1.7327+03	1.7322+03
10	1.7274+03	1.7170+03	1.7188+03	1.7204+03	1.7114+03	1.7104+03
11	1.7288+03	1.7155+03	1.7172+03	1.7181+03	1.7086+03	1.7080+03
12	1.7041+03	1.6911+03	1.6918+03	1.6926+03	1.6824+03	1.6818+03
13	1.7001+03	1.6889+03	1.6844+03	1.6868+03	1.6773+03	1.6765+03
14	1.7764+03	1.7679+03	1.7662+03	1.7673+03	1.7590+03	1.7585+03
15	1.7211+03	1.7152+03	1.7147+03	1.7160+03	1.7079+03	1.7069+03
16	1.6063+03	1.5987+03	1.6012+03	1.6021+03	1.5937+03	1.5925+03
17	1.5103+03	1.5036+03	1.5050+03	1.5057+03	1.4925+03	1.4918+03
18	1.5075+03	1.5019+03	1.5013+03	1.5018+03	1.4965+03	1.4964+03
19	1.5441+03	1.5391+03	1.5410+03	1.5423+03	1.5377+03	1.5374+03
20	1.5592+03	1.5511+03	1.5559+03	1.5566+03	1.5507+03	1.5497+03
21	1.5632+03	1.5541+03	1.5593+03	1.5604+03	1.5526+03	1.5517+03
22	1.6386+03	1.6310+03	1.6314+03	1.6332+03	1.6277+03	1.6274+03
23	1.5950+03	1.5883+03	1.5900+03	1.5912+03	1.5848+03	1.5843+03
24	1.6931+03	1.6843+03	1.6844+03	1.6855+03	1.6796+03	1.6794+03
25	1.7294+03	1.7206+03	1.7202+03	1.7214+03	1.7160+03	1.7155+03
26	1.7524+03	1.7408+03	1.7471+03	1.7481+03	1.7391+03	1.7386+03
27	1.7257+03	1.7108+03	1.7142+03	1.7159+03	1.7033+03	1.7021+03
28	1.6964+03	1.6792+03	1.6806+03	1.6822+03	1.6667+03	1.6661+03
29	1.6793+03	1.6615+03	1.6620+03	1.6639+03	1.6472+03	1.6465+03
30	1.7312+03	1.7222+03	1.7128+03	1.7144+03	1.7074+03	1.7064+03
31	1.6872+03	1.6838+03	1.6735+03	1.6749+03	1.6674+03	1.6666+03
32	1.6249+03	1.6278+03	1.6181+03	1.6196+03	1.6104+03	1.6099+03
33	1.5914+03	1.5935+03	1.5835+03	1.5853+03	1.5779+03	1.5770+03
34	1.5729+03	1.5755+03	1.5655+03	1.5670+03	1.5594+03	1.5586+03
35	1.5171+03	1.5197+03	1.5125+03	1.5134+03	1.5052+03	1.5046+03
36	1.5530+03	1.5538+03	1.5473+03	1.5493+03	1.5433+03	1.5426+03
37	1.5829+03	1.5824+03	1.5794+03	1.5810+03	1.5752+03	1.5747+03
38	1.6206+03	1.6186+03	1.6172+03	1.6190+03	1.6132+03	1.6130+03
39	1.6788+03	1.6739+03	1.6751+03	1.6768+03	1.6711+03	1.6708+03
40	1.7107+03	1.7049+03	1.7077+03	1.7090+03	1.7035+03	1.7031+03



## 300KW TRANSIENT DATA

	886	889	892	895	899	902
	VCSOT	HCSOT	HCSOT	SFST	SFMT	SFLO-R
1	1.6746+03	1.6767+03	1.6769+03	1.4935+03	1.6727+02	1.2041-01
2	1.5225+03	1.5136+03	1.5162+03	1.3982+03	1.6815+02	1.2045-01
3	1.4970+03	1.4970+03	1.4988+03	5.2208+02	1.9216+03	1.3812-04
4	1.5330+03	1.5346+03	1.5352+03	1.4205+03	1.6987+02	1.8142-01
5	1.5580+03	1.5603+03	1.5602+03	1.4389+03	1.7063+02	1.8203-01
6	1.5952+03	1.5967+03	1.5972+03	1.4675+03	1.7189+02	1.7963-01
7	1.6203+03	1.6216+03	1.6224+03	1.4849+03	1.7294+02	1.7684-01
8	1.7148+03	1.7158+03	1.7169+03	1.5474+03	1.8008+02	1.7477-01
9	1.7314+03	1.7332+03	1.7330+03	1.5904+03	1.8205+02	1.6936-01
10	1.7098+03	1.7104+03	1.7100+03	1.5815+03	1.8151+02	1.7035-01
11	1.7075+03	1.7070+03	1.7067+03	1.5458+03	1.8104+02	1.3884-01
12	1.6810+03	1.6818+03	1.6810+03	1.5387+03	1.8020+02	1.4121-01
13	1.6747+03	1.6773+03	1.6768+03	1.5024+03	1.7281+02	1.4184-01
14	1.7576+03	1.7598+03	1.7604+03	1.5525+03	1.7239+02	1.4319-01
15	1.7061+03	1.7088+03	1.7080+03	1.5429+03	1.7033+02	1.4290-01
16	1.5922+03	1.5922+03	1.5929+03	1.4612+03	1.7525+02	1.4417-01
17	1.4905+03	1.4908+03	1.4918+03	1.4358+03	1.7642+02	2.2847-01
18	1.4957+03	1.4969+03	1.4975+03	1.4073+03	1.7747+02	2.4523-01
19	1.5364+03	1.5377+03	1.5390+03	1.4728+03	1.8071+02	2.4084-01
20	1.5495+03	1.5499+03	1.5512+03	1.8069+03	5.1192+02	4.7437-04
21	1.5511+03	1.5517+03	1.5524+03	1.4894+03	1.9005+02	2.2844-01
22	1.6267+03	1.6280+03	1.6299+03	1.5480+03	1.9537+02	2.2895-01
23	1.5842+03	1.5843+03	1.5855+03	1.4550+03	1.9480+02	1.2617-01
24	1.6783+03	1.6796+03	1.6807+03	1.4399+03	1.9106+02	1.2160-01
25	1.7146+03	1.7160+03	1.7168+03	1.4784+03	1.8961+02	1.2159-01
26	1.7378+03	1.7376+03	1.7365+03	1.6560+03	1.9854+02	2.1349-01
27	1.7021+03	1.6958+03	1.6947+03	1.6272+03	2.0188+02	2.1053-01
28	1.6656+03	1.6563+03	1.6550+03	1.6096+03	2.0114+02	2.0800-01
29	1.6461+03	1.6385+03	1.6374+03	1.5873+03	2.0083+02	2.1225-01
30	1.7063+03	1.6768+03	1.6763+03	1.5224+03	1.9357+02	1.2348-01
31	1.6658+03	1.6687+03	1.6696+03	1.5050+03	1.8758+02	1.2216-01
32	1.6093+03	1.5678+03	1.5615+03	1.4703+03	1.7957+02	1.2130-01
33	1.5763+03	1.5642+03	1.5673+03	1.4547+03	1.7815+02	1.2388-01
34	1.5580+03	1.5585+03	1.5596+03	1.4280+03	1.7575+02	1.2284-01
35	1.5038+03	1.5057+03	1.5061+03	1.3761+03	1.6474+02	1.3141-01
36	1.5425+03	1.5444+03	1.5456+03	1.3694+03	1.5607+02	1.2601-01
37	1.5744+03	1.5761+03	1.5778+03	1.3992+03	1.5510+02	1.2738-01
38	1.6122+03	1.6150+03	1.6156+03	1.4225+03	1.5536+02	1.2417-01
39	1.6700+03	1.6724+03	1.6736+03	1.4566+03	1.5602+02	1.2368-01
40	1.7026+03	1.7045+03	1.7059+03	1.4829+03	1.5682+02	1.2302-01

## 300KW TRANSIENT DATA

	906	909	912	915	916	917
	PGTC	PGTC	PGTC	PGTC	SPIP	SPOP
1	6.4918+02	6.2510+02	8.1681+02	3.8266+02	8.0400+01	1.1178+02
2	2.1970+03	2.1970+03	1.5032+03	2.1970+03	-1.5300+01	1.3208+02
3	2.1970+03	2.1970+03	1.4423+03	2.1970+03	-1.5300+01	1.3208+02
4	5.9827+02	6.0934+02	8.1605+02	3.3852+02	3.1560+01	1.0392+02
5	5.9903+02	6.1146+02	8.1513+02	3.4302+02	3.8820+01	1.1046+02
6	6.0197+02	6.1498+02	8.1429+02	3.5268+02	4.8780+01	1.1880+02
7	6.0596+02	6.1784+02	8.1324+02	3.5797+02	5.7360+01	1.2576+02
8	6.3342+02	6.3972+02	8.1744+02	3.8376+02	9.6780+01	1.3206+02
9	6.4757+02	6.5014+02	8.2334+02	3.9726+02	1.0470+02	1.3208+02
10	6.5001+02	6.5265+02	8.2585+02	3.9845+02	9.4200+01	1.3206+02
11	6.5569+02	6.5657+02	8.2757+02	4.1039+02	9.2940+01	1.3202+02
12	6.5569+02	6.5305+02	8.2537+02	4.0855+02	8.1900+01	1.3080+02
13	6.4547+02	6.2909+02	8.1269+02	4.0920+02	8.4780+01	1.3201+02
14	6.4673+02	6.2909+02	8.1353+02	4.1610+02	1.2000+02	1.3208+02
15	6.5943+02	6.3963+02	8.1609+02	4.0083+02	9.4620+01	1.3202+02
16	2.1970+03	2.1970+03	1.9045+03	2.1970+03	-1.5300+01	1.3223+02
17	6.1621+02	6.2061+02	8.1378+02	3.4109+02	2.0340+01	1.3204+02
18	6.1335+02	6.9451+02	9.7879+02	3.3442+02	2.2080+01	1.3208+02
19	6.1014+02	6.7495+02	9.0139+02	3.3980+02	3.1020+01	1.3208+02
20	9.3184+02	9.5830+02	1.1223+03	6.6964+02	3.4500+01	1.3207+02
21	6.2105+02	6.4614+02	8.1210+02	3.5167+02	3.5400+01	1.3207+02
22	6.2813+02	6.4787+02	8.1593+02	3.6633+02	6.0360+01	1.3211+02
23	6.3304+02	6.5032+02	8.1748+02	3.6576+02	4.5420+01	8.5320+01
24	6.3325+02	6.4543+02	8.1181+02	3.7566+02	8.0460+01	1.1766+02
25	6.3690+02	6.4110+02	8.1252+02	3.8741+02	9.6480+01	1.3200+02
26	6.6374+02	6.5010+02	8.3386+02	4.1375+02	1.0542+02	1.3218+02
27	6.6752+02	6.5432+02	8.4964+02	4.2461+02	8.9520+01	1.3215+02
28	6.6766+02	6.5710+02	8.5216+02	4.3026+02	7.4820+01	1.3213+02
29	6.6735+02	6.5943+02	8.5268+02	4.3219+02	6.7380+01	1.3212+02
30	6.5921+02	6.6273+02	8.4368+02	4.2373+02	9.6900+01	1.3201+02
31	6.5894+02	6.5894+02	8.3302+02	4.0606+02	8.0580+01	1.1904+02
32	6.5415+02	6.4803+02	8.1483+02	3.7971+02	5.9100+01	9.8640+01
33	6.5221+02	6.4535+02	8.1089+02	3.7161+02	4.7520+01	8.7120+01
34	6.4841+02	6.4169+02	8.0891+02	3.6152+02	4.1760+01	8.2440+01
35	6.2554+02	6.1850+02	8.0673+02	3.3428+02	2.5920+01	6.8100+01
36	6.0719+02	6.0419+02	8.0517+02	3.2890+02	3.5880+01	7.8300+01
37	6.0666+02	6.0243+02	8.0551+02	3.3433+02	4.4160+01	8.5500+01
38	6.0780+02	6.0226+02	8.0450+02	3.4059+02	5.6100+01	9.6480+01
39	6.1286+02	6.0331+02	8.0471+02	3.5278+02	7.7100+01	1.1568+02
40	6.1762+02	6.0662+02	8.0547+02	3.6372+02	9.0420+01	1.2840+02

## 300KW TRANSIENT DATA

	918	919	922	925	928	931
	BIP	BOP	VCAIT	VCAIT	VCAOT	VCAOT
1	8.3120+01	7.5235+01	4.3896+02	6.0352+02	7.2832+02	6.7440+02
2	1.2312+02	-1.0720+01	8.3866+02	2.1511+03	2.1970+03	2.2402+02
3	1.2312+02	1.9860+01	7.8829+02	2.0388+03	2.1970+03	2.0998+02
4	3.8420+01	2.9975+01	3.6523+02	5.0439+02	6.3632+02	5.9500+02
5	4.6580+01	3.6020+01	3.6902+02	5.0950+02	6.4539+02	6.0281+02
6	5.6000+01	4.6560+01	3.7676+02	5.1988+02	6.5868+02	6.1436+02
7	6.3320+01	5.4155+01	3.8604+02	5.3092+02	6.7060+02	6.2496+02
8	1.0064+02	9.3215+01	4.2566+02	5.8254+02	7.1585+02	6.6414+02
9	1.0886+02	1.0050+02	4.4539+02	6.0587+02	7.4075+02	6.8767+02
10	9.9620+01	9.1200+01	4.4737+02	6.0785+02	7.4222+02	6.8872+02
11	1.0082+02	8.9185+01	4.5172+02	6.0520+02	7.4428+02	6.8490+02
12	8.6720+01	7.9575+01	4.5230+02	6.0323+02	7.4147+02	6.8167+02
13	9.1040+01	8.6550+01	4.2879+02	5.7101+02	7.2038+02	6.6273+02
14	1.2458+02	1.1600+02	4.3236+02	5.7932+02	7.3588+02	6.7902+02
15	9.8840+01	8.9030+01	4.3984+02	5.9764+02	7.3672+02	6.8196+02
16	1.2312+02	1.0034+02	1.1884+03	2.1970+03	2.1970+03	3.5080+02
17	3.1040+01	1.9125+01	3.7509+02	5.1293+02	6.3564+02	5.9390+02
18	2.9720+01	1.8350+01	3.7086+02	5.0650+02	6.3161+02	5.9029+02
19	3.5960+01	2.6565+01	3.6884+02	5.0668+02	6.3304+02	5.9256+02
20	4.0700+01	3.1370+01	3.8525+02	5.3365+02	6.4829+02	6.0921+02
21	4.3340+01	3.2610+01	3.8899+02	5.3563+02	6.5155+02	6.1163+02
22	6.5840+01	5.5860+01	4.0171+02	5.4879+02	6.7255+02	6.2955+02
23	5.0360+01	4.1910+01	4.0975+02	5.6115+02	6.8226+02	6.3758+02
24	8.4620+01	7.6010+01	4.1274+02	5.6489+02	6.8709+02	6.3989+02
25	1.0100+02	9.1200+01	4.2327+02	5.7849+02	7.0749+02	6.5877+02
26	1.1360+02	1.0065+02	4.7064+02	6.2804+02	7.5016+02	6.9732+02
27	1.0172+02	9.0115+01	4.8182+02	6.2382+02	7.4529+02	6.8381+02
28	8.7380+01	7.8025+01	4.8446+02	6.1854+02	7.4025+02	6.7961+02
29	8.3120+01	7.6165+01	4.8424+02	6.1216+02	7.3458+02	6.7436+02
30	9.9560+01	9.0115+01	4.4891+02	5.8179+02	7.2521+02	6.7213+02
31	8.3600+01	7.3220+01	4.4231+02	5.8739+02	7.3277+02	6.8053+02
32	6.1460+01	5.3225+01	4.2640+02	5.8148+02	7.1568+02	6.6484+02
33	5.1560+01	4.1290+01	4.2180+02	5.7752+02	7.0916+02	6.5912+02
34	4.6400+01	3.6950+01	4.1370+02	5.7022+02	6.9746+02	6.4791+02
35	3.1520+01	2.1760+01	3.7267+02	5.2195+02	6.5283+02	6.0807+02
36	3.9380+01	3.0285+01	3.5117+02	4.9572+02	6.3602+02	5.9092+02
37	4.7840+01	3.8035+01	3.5222+02	5.0158+02	6.4623+02	6.0029+02
38	5.9420+01	4.9815+01	3.5820+02	5.1170+02	6.5754+02	6.0970+02
39	8.0480+01	7.0120+01	3.6976+02	5.2872+02	6.7608+02	6.2672+02
40	9.3620+01	8.3450+01	3.8076+02	5.4368+02	6.9292+02	6.4148+02

## 300KW TRANSIENT DATA

	946	949	952	955	961	964
	VCAT	VCAT	VCAT	VCAT	VCWT	VCWT
1	1.6360+03	1.6365+03	1.6383+03	1.3800+03	1.6877+03	1.6856+03
2	1.3575+03	8.6136+02	2.1970+03	2.1970+03	1.5353+03	1.5337+03
3	1.2167+03	8.5780+02	2.1970+03	2.1970+03	1.5095+03	1.5087+03
4	1.4805+03	1.4809+03	1.4818+03	1.2291+03	1.5458+03	1.5449+03
5	1.5032+03	1.5045+03	1.5045+03	1.2511+03	1.5726+03	1.5714+03
6	1.5391+03	1.5408+03	1.5417+03	1.2637+03	1.6082+03	1.6071+03
7	1.5638+03	1.5651+03	1.5651+03	1.2979+03	1.6331+03	1.6317+03
8	1.6532+03	1.6569+03	1.6546+03	1.3591+03	1.7278+03	1.7254+03
9	1.6879+03	1.6892+03	1.6892+03	1.3589+03	1.7459+03	1.7440+03
10	1.6710+03	1.6718+03	1.6727+03	1.3553+03	1.7250+03	1.7234+03
11	1.6670+03	1.6687+03	1.6687+03	1.3782+03	1.7232+03	1.7211+03
12	1.6435+03	1.6449+03	1.6458+03	1.3876+03	1.6972+03	1.6955+03
13	1.6224+03	1.6277+03	1.6242+03	1.3813+03	1.6922+03	1.6905+03
14	1.7076+03	1.7136+03	1.7095+03	1.3769+03	1.7725+03	1.7701+03
15	1.6648+03	1.6692+03	1.6661+03	1.4092+03	1.7210+03	1.7184+03
16	1.3599+03	6.7155+02	2.1970+03	2.1970+03	1.6052+03	1.6044+03
17	1.4441+03	1.4450+03	1.4463+03	1.2393+03	1.5057+03	1.5050+03
18	1.4386+03	1.4408+03	1.4399+03	1.1995+03	1.5064+03	1.5052+03
19	1.4788+03	1.4810+03	1.4806+03	1.2241+03	1.5473+03	1.5460+03
20	1.4952+03	1.4983+03	1.4979+03	1.2590+03	1.5610+03	1.5600+03
21	1.5007+03	1.5034+03	1.5025+03	1.2530+03	1.5642+03	1.5631+03
22	1.5728+03	1.5763+03	1.5746+03	1.3328+03	1.6385+03	1.6369+03
23	1.5443+03	1.5460+03	1.5478+03	1.3222+03	1.5962+03	1.5943+03
24	1.6168+03	1.6238+03	1.6181+03	1.4025+03	1.6907+03	1.6891+03
25	1.6591+03	1.6679+03	1.6608+03	1.4226+03	1.7280+03	1.7258+03
26	1.6916+03	1.6978+03	1.6938+03	1.5975+03	1.7531+03	1.7511+03
27	1.6623+03	1.6654+03	1.6632+03	1.5714+03	1.7184+03	1.7169+03
28	1.6323+03	1.6345+03	1.6340+03	1.5635+03	1.6841+03	1.6830+03
29	1.6126+03	1.6144+03	1.6140+03	1.5254+03	1.6644+03	1.6636+03
30	1.6668+03	1.6751+03	1.6685+03	1.6156+03	1.7199+03	1.7177+03
31	1.6386+03	1.6446+03	1.6405+03	1.5950+03	1.6803+03	1.6779+03
32	1.5901+03	1.5933+03	1.5919+03	1.5250+03	1.6236+03	1.6215+03
33	1.5611+03	1.5615+03	1.5633+03	1.5259+03	1.5905+03	1.5882+03
34	1.5349+03	1.5362+03	1.5366+03	1.4873+03	1.5715+03	1.5702+03
35	1.4721+03	1.4734+03	1.4738+03	1.3899+03	1.5174+03	1.5154+03
36	1.4934+03	1.4973+03	1.4960+03	1.4203+03	1.5539+03	1.5524+03
37	1.5208+03	1.5256+03	1.5225+03	1.4777+03	1.5857+03	1.5847+03
38	1.5560+03	1.5621+03	1.5582+03	1.5071+03	1.6241+03	1.6229+03
39	1.6108+03	1.6193+03	1.6127+03	1.5796+03	1.6821+03	1.6803+03
40	1.6452+03	1.6554+03	1.6471+03	1.6025+03	1.7153+03	1.7130+03

## 300KW TRANSIENT DATA

	970	973	976	979	982	985
	VCWT	VCWT	VCWT	VCWT	VCWO	VCWI
1	1.6843+03	1.6847+03	1.6829+03	1.6804+03	1.6431+03	1.6353+03
2	1.5331+03	1.5326+03	1.5307+03	1.5284+03	8.4460+02	7.5886+02
3	1.5075+03	1.5072+03	1.5049+03	1.5029+03	8.6508+02	7.7448+02
4	1.5444+03	1.5432+03	1.5406+03	1.5393+03	1.4804+03	1.4729+03
5	1.5709+03	1.5701+03	1.5671+03	1.5661+03	1.5014+03	1.4948+03
6	1.6061+03	1.6053+03	1.6032+03	1.6022+03	1.5397+03	1.5331+03
7	1.6311+03	1.6302+03	1.6283+03	1.6270+03	1.5624+03	1.5562+03
8	1.7249+03	1.7237+03	1.7221+03	1.7208+03	1.6493+03	1.6424+03
9	1.7433+03	1.7427+03	1.7408+03	1.7384+03	1.6940+03	1.6874+03
10	1.7234+03	1.7221+03	1.7202+03	1.7176+03	1.6789+03	1.6715+03
11	1.7202+03	1.7191+03	1.7178+03	1.7151+03	1.6745+03	1.6674+03
12	1.6952+03	1.6936+03	1.6921+03	1.6894+03	1.6522+03	1.6439+03
13	1.6900+03	1.6886+03	1.6870+03	1.6848+03	1.6195+03	1.6134+03
14	1.7692+03	1.7684+03	1.7670+03	1.7646+03	1.7111+03	1.7051+03
15	1.7179+03	1.7168+03	1.7153+03	1.7127+03	1.6707+03	1.6633+03
16	1.6029+03	1.6026+03	1.6003+03	1.5989+03	8.3426+02	7.7114+02
17	1.5050+03	1.5032+03	1.4994+03	1.4991+03	1.4476+03	1.4402+03
18	1.5036+03	1.5033+03	1.5011+03	1.5008+03	1.4364+03	1.4281+03
19	1.5455+03	1.5441+03	1.5418+03	1.5413+03	1.4803+03	1.4719+03
20	1.5592+03	1.5586+03	1.5558+03	1.5556+03	1.8253+03	1.8165+03
21	1.5632+03	1.5617+03	1.5591+03	1.5583+03	1.5031+03	1.4960+03
22	1.6357+03	1.6351+03	1.6325+03	1.6332+03	1.5744+03	1.5683+03
23	1.5943+03	1.5935+03	1.5912+03	1.5904+03	1.5523+03	1.5444+03
24	1.6882+03	1.6872+03	1.6850+03	1.6852+03	1.6155+03	1.6101+03
25	1.7251+03	1.7237+03	1.7226+03	1.7218+03	1.6604+03	1.6550+03
26	1.7511+03	1.7495+03	1.7476+03	1.7456+03	1.6993+03	1.6931+03
27	1.7169+03	1.7153+03	1.7123+03	1.7104+03	1.6700+03	1.6630+03
28	1.6835+03	1.6814+03	1.6779+03	1.6758+03	1.6431+03	1.6353+03
29	1.6644+03	1.6620+03	1.6586+03	1.6564+03	1.6213+03	1.6147+03
30	1.7171+03	1.7156+03	1.7141+03	1.7122+03	1.6745+03	1.6696+03
31	1.6775+03	1.6762+03	1.6751+03	1.6725+03	1.6473+03	1.6400+03
32	1.6209+03	1.6198+03	1.6183+03	1.6161+03	1.6005+03	1.5918+03
33	1.5879+03	1.5866+03	1.5851+03	1.5831+03	1.5731+03	1.5647+03
34	1.5689+03	1.5684+03	1.5667+03	1.5645+03	1.5433+03	1.5341+03
35	1.5149+03	1.5143+03	1.5118+03	1.5108+03	1.4781+03	1.4706+03
36	1.5508+03	1.5503+03	1.5478+03	1.5475+03	1.4958+03	1.4879+03
37	1.5834+03	1.5826+03	1.5802+03	1.5804+03	1.5208+03	1.5129+03
38	1.6216+03	1.6209+03	1.6182+03	1.6180+03	1.5558+03	1.5497+03
39	1.6794+03	1.6784+03	1.6765+03	1.6765+03	1.6106+03	1.6037+03
40	1.7122+03	1.7109+03	1.7091+03	1.7088+03	1.6468+03	1.6403+03

## 300KW TRANSIENT DATA

	988	991	1042	1048	994	997
	HCAOT	HCAOT	HCAOTU	HCAOTU	HCIAT	HCIAT
1	1.5752+03	1.5708+03	1.4529+03	1.4560+03	1.0608+02	1.1664+02
2	5.7726+02	9.9505+02	5.5570+02	3.8882+02	5.9063+02	1.1854+02
3	5.6322+02	9.7913+02	5.5222+02	3.7082+02	5.7290+02	6.2250+02
4	1.4365+03	1.4193+03	1.3281+03	1.3346+03	9.8472+01	1.2531+02
5	1.4587+03	1.4438+03	1.3468+03	1.3528+03	9.9176+01	1.2514+02
6	1.4929+03	1.4810+03	1.3768+03	1.3830+03	1.0032+02	1.2584+02
7	1.5105+03	1.5057+03	1.3966+03	1.3999+03	1.0168+02	1.2632+02
8	1.5939+03	1.6045+03	1.4662+03	1.4715+03	1.0842+02	1.2690+02
9	1.6001+03	1.5724+03	1.5077+03	1.5125+03	1.1911+02	1.1515+02
10	1.5462+03	1.4767+03	1.4767+03	1.4806+03	1.2505+02	1.0701+02
11	1.5189+03	1.4256+03	1.4564+03	1.4608+03	1.3600+02	9.7724+01
12	1.4799+03	1.3739+03	1.4222+03	1.4271+03	1.3878+02	9.5216+01
13	1.5312+03	1.4903+03	1.4243+03	1.4388+03	1.3209+02	9.4248+01
14	1.6286+03	1.6035+03	1.5294+03	1.5440+03	1.2368+02	1.0212+02
15	1.5778+03	1.5484+03	1.4872+03	1.4991+03	1.1884+02	9.9044+01
16	5.9899+02	9.9837+02	1.4327+03	3.9581+02	8.0417+02	1.0793+02
17	1.3769+03	1.3068+03	1.2931+03	1.2984+03	1.1449+02	1.1625+02
18	1.3213+03	1.4170+03	1.1352+03	1.1410+03	6.4064+01	1.1686+02
19	1.3470+03	1.4577+03	1.0792+03	1.0872+03	3.7980+01	1.1704+02
20	1.4534+03	1.4622+03	1.2954+03	1.2976+03	1.0749+02	1.5061+02
21	1.4470+03	1.4356+03	1.3434+03	1.3426+03	1.1871+02	1.3807+02
22	1.5024+03	1.5561+03	1.2464+03	1.2552+03	8.5668+01	1.8939+02
23	1.4809+03	1.4756+03	1.3665+03	1.3690+03	1.2003+02	1.4203+02
24	1.5709+03	1.5735+03	1.4424+03	1.4477+03	1.1937+02	1.3961+02
25	1.6049+03	1.6118+03	1.4767+03	1.4828+03	1.1801+02	1.3913+02
26	1.5594+03	1.4806+03	1.4951+03	1.4925+03	1.4480+02	1.1884+02
27	1.4114+03	1.2673+03	1.3762+03	1.3740+03	1.6563+02	1.0098+02
28	1.3371+03	1.1810+03	1.3111+03	1.3095+03	1.7109+02	9.4820+01
29	1.3054+03	1.1429+03	1.2797+03	1.2801+03	1.7382+02	9.2840+01
30	1.5955+03	1.6024+03	1.4624+03	1.4831+03	1.3407+02	1.2307+02
31	1.5759+03	1.5719+03	1.4567+03	1.4804+03	1.2351+02	1.2175+02
32	1.4907+03	1.4801+03	1.4032+03	1.4260+03	1.1264+02	1.1880+02
33	1.4836+03	1.4731+03	1.3777+03	1.4011+03	1.1044+02	1.1704+02
34	1.4733+03	1.4552+03	1.3680+03	1.3915+03	1.0798+02	1.1502+02
35	1.4162+03	1.3921+03	1.3192+03	1.3372+03	9.5348+01	1.0811+02
36	1.4230+03	1.4784+03	1.2019+03	1.2208+03	5.7684+01	1.4700+02
37	1.4416+03	1.5058+03	1.1915+03	1.2104+03	5.1044+01	1.5550+02
38	1.4794+03	1.5419+03	1.2045+03	1.2192+03	5.0124+01	1.6254+02
39	1.5308+03	1.5975+03	1.2397+03	1.2501+03	5.0446+01	1.6672+02
40	1.5220+03	1.6299+03	1.2602+03	1.2701+03	5.0906+01	1.7302+02

## 300KW TRANSIENT DATA

	1000	1003	1006	1009	1012	1015
	HCAT	HCAT	HCAT	HCAT	HCAT	HCAT
1	3.7768+02	4.2645+02	7.6264+02	7.1360+02	1.0050+03	9.1008+02
2	2.1970+03	1.8997+03	4.8046+02	6.2642+02	5.2226+02	5.5658+02
3	2.0015+03	1.6751+03	5.0558+02	6.4333+02	5.3066+02	5.4474+02
4	3.3355+02	3.7139+02	6.6343+02	6.2918+02	8.9106+02	8.1068+02
5	3.4164+02	3.8046+02	6.7831+02	6.4245+02	9.0769+02	8.2722+02
6	3.5434+02	3.9524+02	7.0608+02	6.6616+02	9.3902+02	8.5360+02
7	3.6448+02	4.0716+02	7.2412+02	6.8280+02	9.6216+02	8.7216+02
8	3.9674+02	4.4526+02	7.8993+02	7.4105+02	1.0333+03	9.3709+02
9	3.1435+02	3.4822+02	6.6911+02	6.2567+02	9.1369+02	8.2251+02
10	2.5681+02	2.8275+02	5.6133+02	5.2437+02	7.9110+02	7.1954+02
11	2.3172+02	2.5544+02	5.1772+02	4.7592+02	7.3042+02	6.6796+02
12	2.1742+02	2.4193+02	4.8662+02	4.4878+02	6.9306+02	6.3489+02
13	2.7265+02	3.0753+02	5.9474+02	5.6177+02	8.4408+02	7.5272+02
14	3.1056+02	3.4749+02	6.7650+02	6.3434+02	9.3192+02	8.3544+02
15	2.9467+02	3.3001+02	6.4400+02	6.0520+02	8.9202+02	7.9946+02
16	2.1970+03	2.1970+03	5.4729+02	6.2939+02	5.4905+02	5.7369+02
17	2.5945+02	2.8413+02	5.4373+02	5.0853+02	7.4642+02	6.7906+02
18	8.6534+02	9.1995+02	1.2955+03	1.2134+03	1.4073+03	1.3310+03
19	9.4616+02	9.9530+02	1.3573+03	1.2891+03	1.4568+03	1.4007+03
20	4.4433+02	4.8921+02	8.1845+02	7.5965+02	1.0332+03	9.4419+02
21	3.5241+02	3.8591+02	6.8898+02	6.5287+02	9.0996+02	8.3311+02
22	7.8249+02	8.3527+02	1.2072+03	1.0947+03	1.3930+03	1.2391+03
23	3.7447+02	4.1343+02	7.2820+02	6.8562+02	9.5280+02	8.6851+02
24	4.0197+02	4.4609+02	7.9199+02	7.3975+02	1.0261+03	9.3075+02
25	4.1407+02	4.6101+02	8.1588+02	7.5961+02	1.0508+03	9.5464+02
26	2.6336+02	2.8685+02	5.7272+02	5.2960+02	7.9064+02	7.2244+02
27	1.9502+02	2.1526+02	4.2617+02	3.8402+02	5.9781+02	5.5882+02
28	1.7949+02	1.9546+02	3.8358+02	3.4675+02	5.4342+02	5.0822+02
29	1.7340+02	1.8908+02	3.6620+02	3.2996+02	5.1988+02	4.8820+02
30	3.9643+02	4.3483+02	7.9047+02	7.3865+02	1.0321+03	9.3805+02
31	3.8543+02	4.2120+02	7.6775+02	7.1891+02	1.0069+03	9.1369+02
32	3.6032+02	3.9348+02	7.2324+02	6.7856+02	9.5540+02	8.7344+02
33	3.4836+02	3.7984+02	6.9552+02	6.5692+02	9.2810+02	8.4480+02
34	3.3842+02	3.6814+02	6.7873+02	6.4329+02	9.1063+02	8.2766+02
35	3.0907+02	3.3764+02	6.3333+02	5.9957+02	8.5548+02	7.7743+02
36	7.1184+02	7.6220+02	1.1387+03	1.0231+03	1.3282+03	1.1694+03
37	7.4903+02	8.0211+02	1.1775+03	1.0685+03	1.3663+03	1.2079+03
38	7.9413+02	8.4736+02	1.2247+03	1.1153+03	1.4122+03	1.2476+03
39	8.1920+02	8.7392+02	1.2624+03	1.1463+03	1.4520+03	1.2827+03
40	8.5484+02	9.1050+02	1.3014+03	1.1812+03	1.4881+03	1.3110+03

## 300KW TRANSIENT DATA

	1018	1021	1024	1027	1030	1033
	HCAT	HCAT	HCAT	HCAT	HCAT	HCAT
1	1.2044+03	1.0796+03	1.2523+03	1.3019+03	1.2588+02	1.3966+03
2	6.3909+02	3.6050+02	7.0274+02	6.2202+02	1.0754+02	4.2888+02
3	6.4333+02	3.7918+02	6.8297+02	6.4207+02	1.1154+02	4.6510+02
4	1.0612+03	9.6498+02	1.1222+03	1.1638+03	1.3015+02	1.2552+03
5	1.0914+03	9.8329+02	1.1447+03	1.1867+03	1.3042+02	1.2778+03
6	1.1076+03	1.0138+03	1.1773+03	1.2216+03	1.3244+02	1.3122+03
7	1.1181+03	1.0336+03	1.2002+03	1.2448+03	1.3336+02	1.3374+03
8	1.2639+03	1.1061+03	1.2879+03	1.3331+03	1.3438+02	1.4284+03
9	1.1339+03	1.0137+03	1.2097+03	1.2387+03	1.3451+02	1.3500+03
10	1.1476+03	9.0760+02	1.1060+03	1.1274+03	1.3517+02	1.2440+03
11	1.0945+03	8.5324+02	1.0491+03	1.0692+03	1.3820+02	1.1905+03
12	1.1325+03	8.1345+02	1.0081+03	1.0228+03	1.3746+02	1.1435+03
13	9.9328+02	9.3322+02	1.1383+03	1.1509+03	1.3077+02	1.2680+03
14	1.1614+03	1.0289+03	1.2330+03	1.2611+03	1.3072+02	1.3734+03
15	1.1425+03	9.8946+02	1.1878+03	1.2145+03	1.2588+02	1.3253+03
16	6.5353+02	4.3157+02	7.1149+02	6.0613+02	9.5172+01	5.4245+02
17	1.1169+03	8.3593+02	1.0088+03	1.0231+03	1.3649+02	1.1236+03
18	1.4865+03	1.3672+03	1.4527+03	1.4509+03	1.3446+02	1.4769+03
19	1.6722+03	1.4308+03	1.4946+03	1.5012+03	1.3816+02	1.5228+03
20	1.1007+03	1.0765+03	1.2612+03	1.2727+03	1.4533+02	1.3472+03
21	1.0730+03	9.8514+02	1.1382+03	1.1838+03	1.4775+02	1.2716+03
22	1.9988+03	1.3213+03	1.5609+03	1.4976+03	1.4595+02	1.5464+03
23	1.0895+03	1.0229+03	1.1802+03	1.2265+03	1.4731+02	1.3121+03
24	1.1875+03	1.0917+03	1.2693+03	1.3098+03	1.4533+02	1.4000+03
25	1.2624+03	1.1220+03	1.3037+03	1.3432+03	1.4617+02	1.4340+03
26	1.1635+03	9.1302+02	1.1116+03	1.1286+03	1.5360+02	1.2457+03
27	1.2272+03	7.2387+02	8.9639+02	9.1655+02	1.5642+02	1.0333+03
28	1.2503+03	6.5846+02	8.2418+02	8.4178+02	1.5642+02	9.5435+02
29	1.4104+03	6.3304+02	7.9480+02	8.0782+02	1.5488+02	9.2012+02
30	1.2328+03	1.1084+03	1.2829+03	1.3359+03	1.3803+02	1.4289+03
31	1.1680+03	1.0787+03	1.2583+03	1.2999+03	1.3407+02	1.3917+03
32	1.0988+03	1.0381+03	1.1922+03	1.2456+03	1.2980+02	1.3325+03
33	1.0864+03	1.0037+03	1.1706+03	1.2107+03	1.2760+02	1.3014+03
34	1.0802+03	9.8539+02	1.1531+03	1.1915+03	1.2602+02	1.2803+03
35	1.0510+03	9.3385+02	1.0956+03	1.1293+03	1.1823+02	1.2185+03
36	1.5805+03	1.2514+03	1.4907+03	1.4234+03	1.1312+02	1.4705+03
37	1.6491+03	1.2849+03	1.5234+03	1.4548+03	1.1370+02	1.5005+03
38	1.8920+03	1.3237+03	1.5617+03	1.4913+03	1.1502+02	1.5379+03
39	2.1970+03	1.3653+03	1.6117+03	1.5382+03	1.1752+02	1.5862+03
40	2.1970+03	1.3879+03	1.6420+03	1.5638+03	1.1840+02	1.6131+03



## 300KW TRANSIENT DATA

	1036	1039	1045	1051	1057	1060
	HCAT	HCAT	HCAT	HCAT	HCAT	HCAT
1	1.4762+03	1.4678+03	1.5184+03	1.5220+03	1.5594+03	1.5602+03
2	6.5446+02	5.3810+02	5.8685+02	2.1786+02	5.4206+02	5.9945+02
3	6.4207+02	5.4474+02	5.9487+02	2.6574+02	5.6542+02	6.3073+02
4	1.3377+03	1.3243+03	1.3763+03	1.3781+03	1.4167+03	1.4198+03
5	1.3612+03	1.3485+03	1.4000+03	1.4017+03	1.4394+03	1.4433+03
6	1.3969+03	1.3839+03	1.4366+03	1.4366+03	1.4757+03	1.4792+03
7	1.4212+03	1.4075+03	1.4617+03	1.4617+03	1.5000+03	1.5035+03
8	1.5146+03	1.5005+03	1.5560+03	1.5538+03	1.5912+03	1.5976+03
9	1.4619+03	1.4395+03	1.5143+03	1.5042+03	1.5587+03	1.5777+03
10	1.3637+03	1.3458+03	1.4248+03	1.4186+03	1.4855+03	1.5128+03
11	1.3110+03	1.2926+03	1.3791+03	1.3699+03	1.4445+03	1.4819+03
12	1.2643+03	1.2458+03	1.3349+03	1.3262+03	1.4038+03	1.4411+03
13	1.3844+03	1.3595+03	1.4397+03	1.4305+03	1.4886+03	1.5128+03
14	1.4916+03	1.4648+03	1.5466+03	1.5308+03	1.5862+03	1.6113+03
15	1.4401+03	1.4138+03	1.4942+03	1.4793+03	1.5347+03	1.5585+03
16	6.1449+02	5.6093+02	5.7941+02	2.8970+02	5.5873+02	6.1493+02
17	1.2284+03	1.2049+03	1.2764+03	1.2684+03	1.3219+03	1.3414+03
18	1.4412+03	1.4795+03	1.4465+03	1.4923+03	1.4865+03	1.4249+03
19	1.4832+03	1.5237+03	1.4867+03	1.5338+03	1.5285+03	1.4608+03
20	1.4038+03	1.4000+03	1.4363+03	1.4398+03	1.4622+03	1.4587+03
21	1.3589+03	1.3382+03	1.3960+03	1.3900+03	1.4268+03	1.4356+03
22	1.5794+03	1.5733+03	1.5799+03	1.5936+03	1.5950+03	1.5561+03
23	1.3990+03	1.3785+03	1.4356+03	1.4272+03	1.4646+03	1.4730+03
24	1.4904+03	1.4679+03	1.5309+03	1.5190+03	1.5577+03	1.5674+03
25	1.5264+03	1.5044+03	1.5664+03	1.5546+03	1.5916+03	1.6031+03
26	1.3738+03	1.3488+03	1.4379+03	1.4212+03	1.4907+03	1.5290+03
27	1.1578+03	1.1418+03	1.2403+03	1.2277+03	1.3137+03	1.3735+03
28	1.0778+03	1.0619+03	1.1611+03	1.1464+03	1.2348+03	1.3007+03
29	1.0415+03	1.0268+03	1.1265+03	1.1116+03	1.1979+03	1.2684+03
30	1.5222+03	1.4976+03	1.5614+03	1.5469+03	1.5834+03	1.5973+03
31	1.4879+03	1.4589+03	1.5288+03	1.5086+03	1.5495+03	1.5675+03
32	1.4181+03	1.3965+03	1.4515+03	1.4427+03	1.4770+03	1.4907+03
33	1.3982+03	1.3674+03	1.4366+03	1.4176+03	1.4581+03	1.4753+03
34	1.3779+03	1.3485+03	1.4165+03	1.3988+03	1.4403+03	1.4587+03
35	1.3159+03	1.2863+03	1.3559+03	1.3377+03	1.3807+03	1.3993+03
36	1.5039+03	1.4942+03	1.5048+03	1.5114+03	1.5140+03	1.4824+03
37	1.5309+03	1.5234+03	1.5327+03	1.5410+03	1.5428+03	1.5102+03
38	1.5670+03	1.5604+03	1.5692+03	1.5793+03	1.5802+03	1.5450+03
39	1.6224+03	1.6122+03	1.6237+03	1.6316+03	1.6338+03	1.5970+03
40	1.6554+03	1.6425+03	1.6563+03	1.6630+03	1.6656+03	1.6250+03

## 300KW TRANSIENT DATA

	1063	1066	1069	1078	1086	1095
	H CAT	HCWD	HCWI	P BARO	W AIR	Q AIR
1	1.5849+03	1.5577+03	1.3671+03	1.4540+01	9.9351-02	3.4223+01
2	9.8581+02	9.1613+02	6.1370+02	1.4540+01	7.3037-02	2.1066+00
3	9.6695+02	8.4480+02	6.8318+02	1.4540+01	7.3193-02	-2.4755+00
4	1.4435+03	1.4027+03	1.1982+03	1.4540+01	1.0160-01	3.1562+01
5	1.4667+03	1.4253+03	1.2226+03	1.4540+01	1.0191-01	3.2163+01
6	1.5021+03	1.4658+03	1.2685+03	1.4540+01	1.0110-01	3.2718+01
7	1.5264+03	1.4933+03	1.2970+03	1.4540+01	1.0098-01	3.3162+01
8	1.6186+03	1.5942+03	1.4070+03	1.4540+01	1.0051-01	3.4870+01
9	1.5982+03	1.5512+03	1.2893+03	1.4540+01	1.4594-01	5.2313+01
10	1.5365+03	1.4596+03	1.1270+03	1.4540+01	1.9363-01	6.7776+01
11	1.5022+03	1.4121+03	1.0424+03	1.4540+01	2.2046-01	7.5903+01
12	1.4631+03	1.3649+03	9.8236+02	1.4687+01	2.3235-01	7.7820+01
13	1.5343+03	1.4694+03	1.1709+03	1.4540+01	1.4028-01	4.7382+01
14	1.6290+03	1.5882+03	1.3272+03	1.4540+01	1.4161-01	5.1948+01
15	1.5765+03	1.5315+03	1.2657+03	1.4540+01	1.4257-01	5.0716+01
16	1.0084+03	9.8287+02	5.9651+02	1.4540+01	9.5152-02	1.1036+01
17	1.3607+03	1.2927+03	1.0139+03	1.4540+01	1.4128-01	4.2401+01
18	1.4773+03	1.4641+03	1.4254+03	1.4540+01	2.0804-02	5.4853+00
19	1.5180+03	1.5067+03	1.4759+03	1.4540+01	2.1342-02	5.3814+00
20	1.4789+03	1.7856+03	1.6452+03	1.4540+01	7.0147-02	2.0835+01
21	1.4541+03	1.4177+03	1.2196+03	1.4540+01	1.0037-01	3.1100+01
22	1.5955+03	1.5881+03	1.5309+03	1.4540+01	3.1900-02	9.0153+00
23	1.4910+03	1.4634+03	1.2747+03	1.4540+01	9.7613-02	3.0841+01
24	1.5841+03	1.5635+03	1.3810+03	1.4540+01	9.7496-02	3.2908+01
25	1.6207+03	1.6026+03	1.4212+03	1.4540+01	9.8317-02	3.4148+01
26	1.5453+03	1.4720+03	1.1284+03	1.4540+01	2.0678-01	7.2459+01
27	1.3850+03	1.2598+03	8.2532+02	1.4540+01	3.2670-01	1.0370+02
28	1.3095+03	1.1691+03	7.2803+02	1.4540+01	3.6662-01	1.0993+02
29	1.2742+03	1.1285+03	6.8767+02	1.4540+01	3.8474-01	1.1215+02
30	1.6097+03	1.5994+03	1.4092+03	1.4540+01	9.9086-02	3.4222+01
31	1.5790+03	1.5618+03	1.3710+03	1.4540+01	9.9448-02	3.4375+01
32	1.5048+03	1.4677+03	1.2982+03	1.4540+01	1.0213-01	3.3958+01
33	1.4880+03	1.4635+03	1.2634+03	1.4540+01	1.0233-01	3.3366+01
34	1.4711+03	1.4417+03	1.2374+03	1.4540+01	1.0097-01	3.2708+01
35	1.4103+03	1.3761+03	1.1615+03	1.4540+01	1.0390-01	3.2440+01
36	1.5171+03	1.5077+03	1.4465+03	1.4540+01	3.0721-02	8.6155+00
37	1.5454+03	1.5384+03	1.4803+03	1.4540+01	3.0250-02	8.3921+00
38	1.5824+03	1.5783+03	1.5224+03	1.4540+01	2.9252-02	8.1798+00
39	1.6360+03	1.6341+03	1.5767+03	1.4540+01	2.9243-02	8.4214+00
40	1.6692+03	1.6697+03	1.6128+03	1.4540+01	3.0179-02	8.8318+00

# 300KW TRANSIENT DATA

1099

Q PRI

1	5.3349+01
2	4.2337+01
3	3.6170-02
4	5.1081+01
5	5.9549+01
6	5.4213+01
7	5.5409+01
8	6.4432+01
9	7.3332+01
10	8.6229+01
11	9.6150+01
12	9.6653+01
13	9.8444+01
14	8.0716+01
15	7.2996+01
16	6.2202+01
17	5.5931+01
18	1.8219+01
19	1.2283+01
20	4.2327-02
21	4.8235+01
22	3.1012+01
23	4.5053+01
24	6.1308+01
25	6.2820+01
26	9.0320+01
27	1.2289+02
28	1.2737+02
29	1.2925+02
30	5.1921+01
31	5.1465+01
32	6.2140+01
33	4.5515+01
34	4.6156+01
35	4.7768+01
36	2.9776+01
37	3.3965+01
38	3.5518+01
39	3.9348+01
40	3.8018+01

## 300KW TRANSIENT DATA

	401	402	609	612	614	617
	DATE	TIME	PIT	PIT	PIT/I	POT
1	5.2463+00	7.0500+02	1.7587+03	1.7597+03	1.7523+03	1.7331+03
2	5.2463+00	7.3500+02	1.7476+03	1.7487+03	1.7412+03	1.7304+03
3	5.2463+00	8.0500+02	1.7265+03	1.7276+03	1.7203+03	1.7049+03
4	5.2463+00	9.4500+02	1.6578+03	1.6586+03	1.6521+03	1.6372+03
5	5.2463+00	1.1300+03	1.7455+03	1.7458+03	1.7366+03	1.7330+03
6	5.2463+00	1.3150+03	1.8401+03	1.8407+03	1.8284+03	1.8165+03
7	5.2463+00	1.5150+03	1.7815+03	1.7815+03	1.7671+03	1.7522+03
8	5.2463+00	1.5480+03	1.7428+03	1.7438+03	1.7342+03	1.7300+03
9	5.2463+00	1.6110+03	1.7285+03	1.7301+03	1.7239+03	1.7184+03
10	5.2463+00	1.6420+03	1.6736+03	1.6728+03	1.6679+03	1.6675+03
11	5.2463+00	1.7150+03	1.6147+03	1.6155+03	1.6115+03	1.6076+03
12	5.2463+00	1.7430+03	1.6073+03	1.6068+03	1.6036+03	1.6039+03
13	5.2463+00	1.8180+03	1.6100+03	1.6108+03	1.6088+03	1.6071+03
14	5.2463+00	1.8550+03	1.7031+03	1.7044+03	1.7036+03	1.7008+03
15	5.2463+00	1.9220+03	1.6716+03	1.6724+03	1.6720+03	1.6694+03
16	5.2463+00	2.0000+03	1.5383+03	1.5385+03	1.5394+03	1.5362+03
17	5.2463+00	2.0300+03	1.4645+03	1.4635+03	1.4657+03	1.4620+03
18	5.2463+00	2.0450+03	1.4256+03	1.4255+03	1.4274+03	1.4238+03
19	6.2563+00	2.0510+03	6.8710+02	6.8672+02	6.9198+02	6.7755+02
20	6.2563+00	2.1320+03	7.6024+02	7.6024+02	7.6064+02	7.5705+02
21	6.2563+00	2.2020+03	8.6801+02	8.6856+02	8.6795+02	8.6323+02
22	6.2563+00	2.2400+03	9.8436+02	9.8490+02	9.8379+02	9.7730+02
23	6.2563+00	2.3040+03	1.0516+03	1.0513+03	1.0492+03	1.0436+03
24	6.2563+00	2.3360+03	1.1374+03	1.1383+03	1.1347+03	1.1295+03
25	6.2663+00	1.2000+01	1.2341+03	1.2333+03	1.2292+03	1.2232+03
26	6.2663+00	4.0000+01	1.3079+03	1.3078+03	1.3028+03	1.2976+03
27	6.2663+00	1.1700+02	1.4054+03	1.4060+03	1.3990+03	1.3928+03
28	6.2663+00	2.3200+02	1.5410+03	1.5421+03	1.5337+03	1.5286+03
29	6.2663+00	3.0000+02	1.4813+03	1.4813+03	1.4725+03	1.4756+03
30	6.2363+00	3.2700+02	1.5400+03	1.5410+03	1.5329+03	1.5285+03
31	6.2663+00	6.0000+02	1.6387+03	1.6396+03	1.6323+03	1.6244+03
32	6.2663+00	6.4000+02	1.6842+03	1.6849+03	1.6773+03	1.6689+03
33	6.2663+00	7.0300+02	1.7198+03	1.7204+03	1.7114+03	1.7037+03
34	6.2663+00	9.0700+02	1.8230+03	1.8251+03	1.8095+03	1.8072+03
35	6.2663+00	1.0030+03	1.8153+03	1.8156+03	1.7992+03	1.7844+03
36	6.2663+00	1.3450+03	1.8254+03	1.8265+03	1.8122+03	1.7834+03
37	6.2663+00	1.5200+03	1.7234+03	1.7245+03	1.7185+03	1.6939+03
38	6.2663+00	1.6080+03	1.6600+03	1.6618+03	1.6594+03	1.6318+03
39	6.2663+00	1.7050+03	1.5985+03	1.5999+03	1.6002+03	1.5540+03
40	6.2623+00	2.0350+03	1.6705+03	1.6705+03	1.6687+03	1.6208+03

## 300KW TRANSIENT DATA

	620	622	625	628	631	637
	POT	POT/I	BP 1	BP 2	BP 3	BP 5
1	1.7326+03	1.7283+03	1.7200+03	1.7214+03	1.7287+03	1.6979+03
2	1.7300+03	1.7252+03	1.7142+03	1.7174+03	1.7172+03	1.6868+03
3	1.7045+03	1.6996+03	1.6882+03	1.6912+03	1.6940+03	1.6666+03
4	1.6369+03	1.6326+03	1.6212+03	1.6240+03	1.6274+03	1.6027+03
5	1.7327+03	1.7247+03	1.7173+03	1.7203+03	1.7192+03	1.6824+03
6	1.8164+03	1.8059+03	1.8063+03	1.8076+03	1.8129+03	1.7716+03
7	1.7515+03	1.7400+03	1.7414+03	1.7417+03	1.7536+03	1.7296+03
8	1.7288+03	1.7223+03	1.7138+03	1.7159+03	1.7155+03	1.6816+03
9	1.7184+03	1.7136+03	1.7000+03	1.7016+03	1.7023+03	1.6764+03
10	1.6670+03	1.6642+03	1.6508+03	1.6510+03	1.6479+03	1.6259+03
11	1.6066+03	1.6042+03	1.5906+03	1.5911+03	1.5912+03	1.5774+03
12	1.6028+03	1.6016+03	1.5827+03	1.5837+03	1.5814+03	1.5618+03
13	1.6063+03	1.6067+03	1.5861+03	1.5869+03	1.5847+03	1.5580+03
14	1.7005+03	1.7014+03	1.6792+03	1.6812+03	1.6759+03	1.6380+03
15	1.6694+03	1.6703+03	1.6476+03	1.6494+03	1.6457+03	1.6215+03
16	1.5362+03	1.5379+03	1.5157+03	1.5161+03	1.5147+03	1.5111+03
17	1.4625+03	1.4647+03	1.4399+03	1.4404+03	1.4404+03	1.4407+03
18	1.4236+03	1.4261+03	1.4032+03	1.4032+03	1.4032+03	1.4027+03
19	6.7774+02	6.8492+02	9.8867+02	6.6906+02	6.7460+02	6.8759+02
20	7.5723+02	7.5763+02	1.8710+02	7.4718+02	7.5113+02	7.8534+02
21	8.6139+02	8.6243+02	5.8647+02	8.5520+02	8.5796+02	8.7176+02
22	9.7603+02	9.7636+02	7.4846+02	9.6935+02	9.7207+02	9.7732+02
23	1.0436+03	1.0422+03	1.9437+03	1.0351+03	1.0378+03	1.0408+03
24	1.1284+03	1.1273+03	1.4985+03	1.0687+03	1.0703+03	1.0674+03
25	1.2222+03	1.2192+03	1.5527+03	1.2164+03	1.2167+03	1.2056+03
26	1.2969+03	1.2929+03	1.9490+03	1.2898+03	1.2901+03	1.2778+03
27	1.3925+03	1.3869+03	1.9510+03	1.3860+03	1.3860+03	1.3655+03
28	1.5281+03	1.5218+03	1.9549+03	1.5211+03	1.5188+03	1.4982+03
29	1.4743+03	1.4684+03	1.9562+03	1.4670+03	1.4643+03	1.4607+03
30	1.5282+03	1.5225+03	1.9564+03	1.5194+03	1.5174+03	1.4988+03
31	1.6237+03	1.6189+03	1.9575+03	1.6142+03	1.6119+03	1.5858+03
32	1.6683+03	1.6629+03	1.9588+03	1.6589+03	1.6558+03	1.6270+03
33	1.7031+03	1.6966+03	1.9603+03	1.6947+03	1.6917+03	1.6603+03
34	1.8067+03	1.7939+03	1.9745+03	1.7953+03	1.7965+03	1.7646+03
35	1.7831+03	1.7687+03	1.7693+03	1.7717+03	1.7835+03	1.7555+03
36	1.7825+03	1.7731+03	1.7740+03	1.7751+03	1.7900+03	1.7563+03
37	1.6928+03	1.6903+03	1.6790+03	1.6797+03	1.6916+03	4.0462+02
38	1.6315+03	1.6323+03	1.6179+03	1.6187+03	1.6288+03	1.6122+03
39	1.5539+03	1.5561+03	1.5470+03	1.5450+03	1.5658+03	1.5526+03
40	1.6197+03	1.6217+03	1.6209+03	1.6231+03	1.6339+03	1.6112+03

## 300KW TRANSIENT DATA

	640	799	649	652	655	658
	BP 6	BP 7	BP 8	BW 1	BW 2	BW 3
1	1.7115+03	1.7252+03	1.7286+03	1.7583+03	1.7589+03	1.7580+03
2	1.7019+03	1.7137+03	1.7192+03	1.7473+03	1.7482+03	1.7463+03
3	1.6762+03	1.6882+03	1.6944+03	1.7260+03	1.7267+03	1.7246+03
4	1.6122+03	1.6212+03	1.6248+03	1.6568+03	1.6572+03	1.6567+03
5	1.6990+03	1.7171+03	1.7226+03	1.7454+03	1.7458+03	1.7455+03
6	1.7829+03	1.8109+03	1.8161+03	1.8396+03	1.8404+03	1.8398+03
7	1.7181+03	1.7479+03	1.7499+03	1.7810+03	1.7827+03	1.7810+03
8	1.6993+03	1.7159+03	1.7185+03	1.7427+03	1.7430+03	1.7427+03
9	1.6916+03	1.7019+03	1.7042+03	1.7296+03	1.7308+03	1.7292+03
10	1.6444+03	1.6497+03	1.6521+03	1.6731+03	1.6726+03	1.6722+03
11	1.5837+03	1.5915+03	1.5919+03	1.6148+03	1.6160+03	1.6153+03
12	1.5800+03	1.5826+03	1.5834+03	1.6057+03	1.6058+03	1.6057+03
13	1.5878+03	1.5864+03	1.5881+03	1.6102+03	1.6097+03	1.6102+03
14	1.6827+03	1.6788+03	1.6826+03	1.7028+03	1.7039+03	1.7039+03
15	1.6505+03	1.6475+03	1.6502+03	1.6716+03	1.6721+03	1.6721+03
16	1.5250+03	1.5156+03	1.5154+03	1.5385+03	1.5388+03	1.5388+03
17	1.4526+03	1.4394+03	1.4377+03	1.4632+03	1.4635+03	1.4630+03
18	1.4129+03	1.4022+03	1.4022+03	1.4256+03	1.4255+03	1.4255+03
19	6.8549+02	6.7193+02	6.6369+02	6.8901+02	6.8710+02	6.8576+02
20	7.5545+02	7.4850+02	7.4058+02	7.6287+02	7.6175+02	7.6005+02
21	8.6477+02	8.5685+02	8.5130+02	8.7151+02	8.7040+02	8.6930+02
22	9.7243+02	9.7170+02	9.6754+02	9.8707+02	9.8653+02	9.8580+02
23	1.0390+03	1.0371+03	1.0333+03	1.0536+03	1.0531+03	1.0520+03
24	1.0699+03	1.0703+03	1.0685+03	1.1393+03	1.1390+03	1.1381+03
25	1.2146+03	1.2172+03	1.2164+03	1.2347+03	1.2348+03	1.2343+03
26	1.2863+03	1.2911+03	1.2904+03	1.3084+03	1.3084+03	1.3083+03
27	1.3779+03	1.3877+03	1.3887+03	1.4059+03	1.4064+03	1.4065+03
28	1.5077+03	1.5211+03	1.5235+03	1.5417+03	1.5426+03	1.5412+03
29	1.4532+03	1.4662+03	1.4688+03	1.4823+03	1.4824+03	1.4836+03
30	1.5087+03	1.5192+03	1.5213+03	1.5403+03	1.5411+03	1.5398+03
31	1.6072+03	1.6134+03	1.6174+03	1.6387+03	1.6395+03	1.6384+03
32	1.6497+03	1.6576+03	1.6629+03	1.6841+03	1.6849+03	1.6847+03
33	1.6822+03	1.6933+03	1.6987+03	1.7196+03	1.7210+03	1.7194+03
34	1.7652+03	1.7965+03	1.8012+03	1.8236+03	1.8249+03	1.8241+03
35	1.7403+03	1.7769+03	1.7789+03	1.8139+03	1.8153+03	1.8129+03
36	1.7613+03	1.7838+03	1.7865+03	1.8239+03	1.8245+03	1.8229+03
37	1.6827+03	1.6857+03	1.6868+03	1.7227+03	1.7231+03	1.7215+03
38	1.6300+03	1.6245+03	1.6240+03	1.6595+03	1.6597+03	1.6582+03
39	1.5575+03	1.5550+03	1.5532+03	1.5973+03	1.5980+03	1.5959+03
40	1.6270+03	1.6257+03	1.6308+03	1.6677+03	1.6683+03	1.6659+03

## 300KW TRANSIENT DATA

	661	664	667	670	673	676
	BW 4	BW 5	BW 6	BW 7	BW 8	BW 9
1	1.7581+03	1.7571+03	1.7576+03	1.7645+03	1.7637+03	1.7638+03
2	1.7460+03	1.7454+03	1.7457+03	1.7525+03	1.7519+03	1.7524+03
3	1.7246+03	1.7235+03	1.7241+03	1.7305+03	1.7303+03	1.7295+03
4	1.6548+03	1.6542+03	1.6546+03	1.6615+03	1.6608+03	1.6612+03
5	1.7460+03	1.7458+03	1.7461+03	1.7523+03	1.7517+03	1.7521+03
6	1.8406+03	1.8415+03	1.8418+03	1.8480+03	1.8480+03	1.8480+03
7	1.7804+03	1.7800+03	1.7803+03	1.7869+03	1.7868+03	1.7868+03
8	1.7433+03	1.7396+03	1.7398+03	1.7466+03	1.7465+03	1.7463+03
9	1.7293+03	1.7248+03	1.7250+03	1.7318+03	1.7318+03	1.7321+03
10	1.6725+03	1.6694+03	1.6694+03	1.6765+03	1.6755+03	1.6758+03
11	1.6140+03	1.6097+03	1.6099+03	1.6165+03	1.6165+03	1.6168+03
12	1.6062+03	1.6013+03	1.6010+03	1.6078+03	1.6074+03	1.6081+03
13	1.6100+03	1.6045+03	1.6042+03	1.6110+03	1.6108+03	1.6113+03
14	1.7042+03	1.6990+03	1.6987+03	1.7054+03	1.7052+03	1.7055+03
15	1.6724+03	1.6671+03	1.6666+03	1.6735+03	1.6733+03	1.6736+03
16	1.5388+03	1.5329+03	1.5327+03	1.5397+03	1.5392+03	1.5396+03
17	1.4624+03	1.4557+03	1.4557+03	1.4625+03	1.4622+03	1.4628+03
18	1.4253+03	1.4189+03	1.4184+03	1.4252+03	1.4252+03	1.4254+03
19	6.8595+02	6.8415+02	6.8454+02	6.9179+02	6.9122+02	6.8988+02
20	7.6099+02	7.6015+02	7.6053+02	7.6748+02	7.6730+02	7.6579+02
21	8.7077+02	8.7029+02	8.7047+02	8.7767+02	8.7749+02	8.7656+02
22	9.8743+02	9.8655+02	9.8709+02	9.9397+02	9.9342+02	9.9288+02
23	1.0532+03	1.0528+03	1.0530+03	1.0603+03	1.0594+03	1.0585+03
24	1.1398+03	1.0871+03	1.0873+03	1.0942+03	1.0935+03	1.0928+03
25	1.2357+03	1.2349+03	1.2352+03	1.2425+03	1.2415+03	1.2411+03
26	1.3096+03	1.3094+03	1.3095+03	1.3163+03	1.3155+03	1.3153+03
27	1.4079+03	1.4078+03	1.4081+03	1.4148+03	1.4138+03	1.4141+03
28	1.5423+03	1.5427+03	1.5430+03	1.5497+03	1.5488+03	1.5491+03
29	1.4856+03	1.4854+03	1.4856+03	1.4927+03	1.4917+03	1.4920+03
30	1.5406+03	1.5402+03	1.5410+03	1.5474+03	1.5464+03	1.5467+03
31	1.6392+03	1.6384+03	1.6389+03	1.6455+03	1.6443+03	1.6453+03
32	1.6852+03	1.6840+03	1.6845+03	1.6910+03	1.6897+03	1.6905+03
33	1.7204+03	1.7196+03	1.7201+03	1.7272+03	1.7254+03	1.7258+03
34	1.8243+03	1.8247+03	1.8252+03	1.8316+03	1.8308+03	1.8311+03
35	1.8129+03	1.7912+02	1.9753+03	1.8213+03	1.8208+03	1.8200+03
36	1.8231+03	1.8214+03	1.8221+03	1.8286+03	1.8285+03	1.8278+03
37	1.7213+03	1.7176+03	1.7180+03	1.7248+03	1.7242+03	1.7241+03
38	1.6582+03	1.6544+03	1.6548+03	1.6612+03	1.6612+03	1.6607+03
39	1.5952+03	1.5930+03	1.5935+03	1.6000+03	1.5998+03	1.5983+03
40	1.6664+03	1.6646+03	1.6650+03	1.6714+03	1.6706+03	1.6706+03

## 300KW TRANSIENT DATA

	679	682	688	691	694	697
	BW 10	BW 11	BW 13	BW 14	BW 15	BW 16
1	1.7640+03	1.7632+03	1.7554+03	1.7561+03	1.7546+03	1.7557+03
2	1.7524+03	1.7509+03	1.7444+03	1.7444+03	1.7424+03	1.7438+03
3	1.7303+03	1.7289+03	1.7229+03	1.7221+03	1.7202+03	1.7222+03
4	1.6612+03	1.6594+03	1.6536+03	1.6522+03	1.6506+03	1.6523+03
5	1.7526+03	1.7518+03	1.7436+03	1.7441+03	1.7427+03	1.7449+03
6	1.8482+03	1.8476+03	1.8381+03	1.8396+03	1.8379+03	1.8392+03
7	1.7868+03	1.7863+03	1.7793+03	1.7799+03	1.7780+03	1.7802+03
8	1.7466+03	1.7465+03	1.7419+03	1.7427+03	1.7411+03	1.7422+03
9	1.7318+03	1.7313+03	1.7279+03	1.7290+03	1.7271+03	1.7284+03
10	1.6760+03	1.6755+03	1.6715+03	1.6720+03	1.6709+03	1.6722+03
11	1.6173+03	1.6167+03	1.6134+03	1.6148+03	1.6144+03	1.6147+03
12	1.6083+03	1.6076+03	1.6050+03	1.6058+03	1.6044+03	1.6050+03
13	1.6118+03	1.6108+03	1.6087+03	1.6105+03	1.6084+03	1.6092+03
14	1.7059+03	1.7054+03	1.7023+03	1.7040+03	1.7024+03	1.7042+03
15	1.6741+03	1.6735+03	1.6710+03	1.6722+03	1.6705+03	1.6718+03
16	1.5397+03	1.5394+03	1.5381+03	1.5385+03	1.5370+03	1.5385+03
17	1.4632+03	1.4620+03	1.4635+03	1.4634+03	1.4614+03	1.4655+03
18	1.4262+03	1.4252+03	1.4253+03	1.4253+03	1.4251+03	1.4251+03
19	6.9122+02	6.9084+02	6.9168+02	6.8672+02	6.8958+02	6.8557+02
20	7.6748+02	7.6711+02	7.6607+02	7.6043+02	7.6344+02	7.6062+02
21	8.7767+02	8.7730+02	8.7390+02	8.6967+02	8.7169+02	8.6930+02
22	9.9379+02	9.9342+02	9.8924+02	9.8617+02	9.8761+02	9.8580+02
23	1.0599+03	1.0599+03	1.0552+03	1.0524+03	1.0525+03	1.0524+03
24	1.0942+03	1.0938+03	1.1402+03	1.1384+03	1.1383+03	1.1384+03
25	1.2423+03	1.2423+03	1.2362+03	1.2343+03	1.2340+03	1.2345+03
26	1.3167+03	1.3162+03	1.3088+03	1.3081+03	1.3074+03	1.3081+03
27	1.4145+03	1.4145+03	1.4072+03	1.4057+03	1.4042+03	1.4060+03
28	1.5491+03	1.5488+03	1.5408+03	1.5404+03	1.5376+03	1.5412+03
29	1.4922+03	1.4922+03	1.4834+03	1.4833+03	1.4813+03	1.4838+03
30	1.5469+03	1.5464+03	1.5398+03	1.5390+03	1.5367+03	1.5395+03
31	1.6455+03	1.6440+03	1.6372+03	1.6356+03	1.6340+03	1.6369+03
32	1.6907+03	1.6894+03	1.6829+03	1.6809+03	1.6799+03	1.6822+03
33	1.7261+03	1.7251+03	1.7183+03	1.7164+03	1.7153+03	1.7183+03
34	1.8312+03	1.8308+03	1.8219+03	1.8221+03	1.8212+03	1.8227+03
35	1.8205+03	1.8191+03	1.8110+03	1.8090+03	1.8088+03	1.8107+03
36	1.8274+03	1.8274+03	1.8215+03	1.8198+03	1.8193+03	1.8203+03
37	1.7237+03	1.7234+03	1.7204+03	1.7191+03	1.7180+03	1.7189+03
38	1.6609+03	1.6601+03	1.6577+03	1.6558+03	1.6550+03	1.6561+03
39	1.5992+03	1.5977+03	1.5951+03	1.5905+03	1.5912+03	1.5915+03
40	1.6706+03	1.6694+03	1.6648+03	1.6614+03	1.6606+03	1.6614+03



## 300KW TRANSIENT DATA

	700	703	706	709	712	718
	BW 17	BW 18	BW 19	BW 20	BW 21	BW 23
1	1.7532+03	1.7520+03	1.7526+03	1.7493+03	1.7524+03	1.7563+03
2	1.7417+03	1.7392+03	1.7403+03	1.7371+03	1.7400+03	1.7443+03
3	1.7175+03	1.7170+03	1.7169+03	1.7102+03	1.7151+03	1.7192+03
4	1.6482+03	1.6477+03	1.6477+03	1.6433+03	1.6456+03	1.6507+03
5	1.7425+03	1.7405+03	1.7422+03	1.7392+03	1.7416+03	1.7471+03
6	1.8378+03	1.8345+03	1.8362+03	1.8346+03	1.8370+03	1.8431+03
7	1.7769+03	1.7748+03	1.7763+03	1.7726+03	1.7763+03	1.7798+03
8	1.7419+03	1.7390+03	1.7408+03	1.7395+03	1.7417+03	1.7453+03
9	1.7285+03	1.7257+03	1.7276+03	1.7266+03	1.7277+03	1.7299+03
10	1.6720+03	1.6693+03	1.6715+03	1.6707+03	1.6715+03	1.6755+03
11	1.6150+03	1.6118+03	1.6139+03	1.6127+03	1.6142+03	1.6160+03
12	1.6058+03	1.6036+03	1.6049+03	1.6042+03	1.6047+03	1.6073+03
13	1.6100+03	1.6076+03	1.6092+03	1.6094+03	1.6097+03	1.6108+03
14	1.7044+03	1.7015+03	1.7037+03	1.7031+03	1.7039+03	1.7054+03
15	1.6726+03	1.6697+03	1.6713+03	1.6714+03	1.6718+03	1.6732+03
16	1.5385+03	1.5368+03	1.5380+03	1.5370+03	1.5373+03	1.5391+03
17	1.4622+03	1.4622+03	1.4634+03	1.4607+03	1.4619+03	1.4620+03
18	1.4251+03	1.4250+03	1.4250+03	1.4248+03	1.4248+03	1.4247+03
19	6.8595+02	6.9130+02	6.8748+02	6.8481+02	6.8615+02	6.9027+02
20	7.6099+02	7.6438+02	7.6156+02	7.5968+02	7.6024+02	7.6711+02
21	8.7004+02	8.7243+02	8.7059+02	8.6875+02	8.6967+02	8.7730+02
22	9.8617+02	9.8834+02	9.8653+02	9.8472+02	9.8562+02	9.9306+02
23	1.0524+03	1.0534+03	1.0534+03	1.0509+03	1.0518+03	1.0590+03
24	1.1386+03	1.1393+03	1.1390+03	1.1374+03	1.1379+03	1.0933+03
25	1.2338+03	1.2347+03	1.2341+03	1.2326+03	1.2340+03	1.2411+03
26	1.3083+03	1.3074+03	1.3084+03	1.3069+03	1.3073+03	1.3155+03
27	1.4059+03	1.4052+03	1.4069+03	1.4045+03	1.4050+03	1.4138+03
28	1.5395+03	1.5381+03	1.5412+03	1.5381+03	1.5392+03	1.5475+03
29	1.4834+03	1.4823+03	1.4834+03	1.4821+03	1.4829+03	1.4920+03
30	1.5384+03	1.5370+03	1.5393+03	1.5369+03	1.5379+03	1.5453+03
31	1.6347+03	1.6329+03	1.6361+03	1.6329+03	1.6340+03	1.6419+03
32	1.6791+03	1.6785+03	1.6822+03	1.6775+03	1.6793+03	1.6867+03
33	1.7153+03	1.7138+03	1.7171+03	1.7134+03	1.7150+03	1.7224+03
34	1.8210+03	1.8191+03	1.7209+02	1.9526+03	1.8193+03	1.8272+03
35	1.8054+03	1.8046+03	1.8068+03	1.8001+03	1.8027+03	1.8101+03
36	1.8159+03	1.8143+03	1.8170+03	1.8110+03	1.8127+03	1.8174+03
37	1.7156+03	1.7147+03	1.7167+03	1.7110+03	1.7137+03	1.7166+03
38	1.6534+03	1.6524+03	1.6542+03	1.6495+03	1.6510+03	1.6536+03
39	1.5863+03	1.5882+03	1.5872+03	1.5804+03	1.5841+03	1.5863+03
40	1.6559+03	1.6561+03	1.6564+03	1.6485+03	1.6529+03	1.6595+03

## 300KW TRANSIENT DATA

	721	727	730	733	736	742
	BW 24	BW 26	BW 27	BW 28	BW 29	BW 31
1	1.7547+03	1.7549+03	1.7549+03	1.7541+03	1.7494+03	1.7456+03
2	1.7427+03	1.7432+03	1.7426+03	1.7403+03	1.7376+03	1.7338+03
3	1.7175+03	1.7183+03	1.7175+03	1.7157+03	1.7132+03	1.7089+03
4	1.6493+03	1.6502+03	1.6494+03	1.6449+03	1.6446+03	1.6411+03
5	1.7461+03	1.7463+03	1.7461+03	1.7445+03	1.7401+03	1.7362+03
6	1.8414+03	1.8412+03	1.8417+03	1.8410+03	1.8348+03	1.8293+03
7	1.7772+03	1.7778+03	1.7773+03	1.7772+03	1.7729+03	1.7695+03
8	1.7442+03	1.7436+03	1.7436+03	1.7444+03	1.7400+03	1.7368+03
9	1.7292+03	1.7286+03	1.7289+03	1.7288+03	1.7265+03	1.7239+03
10	1.6749+03	1.6742+03	1.6746+03	1.6747+03	1.6709+03	1.6693+03
11	1.6159+03	1.6154+03	1.6154+03	1.6164+03	1.6131+03	1.6114+03
12	1.6070+03	1.6066+03	1.6070+03	1.6068+03	1.6047+03	1.6037+03
13	1.6103+03	1.6102+03	1.6103+03	1.6105+03	1.6090+03	1.6073+03
14	1.7052+03	1.7051+03	1.7054+03	1.7049+03	1.7028+03	1.7020+03
15	1.6730+03	1.6728+03	1.6727+03	1.6728+03	1.6706+03	1.6692+03
16	1.5389+03	1.5386+03	1.5384+03	1.5392+03	1.5375+03	1.5367+03
17	1.4615+03	1.4614+03	1.4614+03	1.4617+03	1.4617+03	1.4622+03
18	1.4246+03	1.4246+03	1.4246+03	1.4246+03	1.4248+03	1.4246+03
19	6.8988+02	6.8969+02	6.9103+02	6.9141+02	6.8920+02	6.8958+02
20	7.6654+02	7.6654+02	7.6786+02	7.6748+02	7.6344+02	7.6400+02
21	8.7675+02	8.7582+02	8.7767+02	8.7749+02	8.7188+02	8.7206+02
22	9.9270+02	9.9216+02	9.9324+02	9.9361+02	9.8689+02	9.8689+02
23	1.0589+03	1.0583+03	1.0596+03	1.0596+03	1.0525+03	1.0522+03
24	1.0929+03	1.0924+03	1.0935+03	1.0933+03	1.1384+03	1.1381+03
25	1.2408+03	1.2406+03	1.2416+03	1.2413+03	1.2333+03	1.2326+03
26	1.3148+03	1.3146+03	1.3153+03	1.3151+03	1.3071+03	1.3064+03
27	1.4128+03	1.4126+03	1.4130+03	1.4130+03	1.4044+03	1.4034+03
28	1.5471+03	1.5471+03	1.5466+03	1.5463+03	1.5381+03	1.5366+03
29	1.4917+03	1.4913+03	1.4913+03	1.4915+03	1.4821+03	1.4811+03
30	1.5451+03	1.5449+03	1.5448+03	1.5443+03	1.5370+03	1.5357+03
31	1.6409+03	1.6409+03	1.6401+03	1.6387+03	1.6334+03	1.6314+03
32	1.6861+03	1.6870+03	1.6859+03	1.6847+03	1.6780+03	1.6759+03
33	1.7221+03	1.7220+03	1.7213+03	1.7202+03	1.7139+03	1.7115+03
34	1.8258+03	1.8252+03	1.8253+03	1.8248+03	1.8168+03	1.8135+03
35	1.8081+03	1.8081+03	1.8082+03	1.8059+03	1.8004+03	1.7957+03
36	1.8148+03	1.8147+03	1.8142+03	1.8144+03	1.8109+03	1.8069+03
37	1.7139+03	1.7144+03	1.7135+03	1.7139+03	1.7123+03	1.7094+03
38	1.6511+03	1.6511+03	1.6511+03	1.6504+03	1.6502+03	1.6474+03
39	1.5833+03	1.5820+03	1.5820+03	1.5832+03	1.5817+03	1.5786+03
40	1.6564+03	1.6551+03	1.6550+03	1.6543+03	1.6500+03	1.6463+03

## 300KW TRANSIENT DATA

	745	748	754	757	760	763
	BW 32	BW 33	BW 35	BW 36	BW 37	BW 38
1	1.7452+03	1.7436+03	1.7455+03	1.7512+03	1.7473+03	1.7490+03
2	1.7343+03	1.7327+03	1.7370+03	1.7416+03	1.7408+03	1.7418+03
3	1.7104+03	1.7056+03	1.7115+03	1.7156+03	1.7149+03	1.7159+03
4	1.6414+03	1.6387+03	1.6433+03	1.6473+03	1.6470+03	1.6488+03
5	1.7373+03	1.7352+03	1.7398+03	1.7457+03	1.7441+03	1.7452+03
6	1.8293+03	1.8283+03	1.8318+03	1.8390+03	1.8348+03	1.8365+03
7	1.7678+03	1.7663+03	1.7681+03	1.7746+03	1.7691+03	1.7705+03
8	1.7371+03	1.7371+03	1.7385+03	1.7435+03	1.7401+03	1.7414+03
9	1.7236+03	1.7242+03	1.7257+03	1.7283+03	1.7256+03	1.7267+03
10	1.6702+03	1.6702+03	1.6710+03	1.6752+03	1.6744+03	1.6742+03
11	1.6116+03	1.6126+03	1.6134+03	1.6157+03	1.6151+03	1.6149+03
12	1.6034+03	1.6046+03	1.6057+03	1.6066+03	1.6063+03	1.6071+03
13	1.6081+03	1.6087+03	1.6092+03	1.6103+03	1.6098+03	1.6100+03
14	1.7015+03	1.7028+03	1.7042+03	1.7046+03	1.7052+03	1.7047+03
15	1.6697+03	1.6708+03	1.6721+03	1.6727+03	1.6728+03	1.6725+03
16	1.5368+03	1.5375+03	1.5380+03	1.5384+03	1.5383+03	1.5389+03
17	1.4615+03	1.4629+03	1.4624+03	1.4617+03	1.4614+03	1.4615+03
18	1.4245+03	1.4245+03	1.4243+03	1.4242+03	1.4242+03	1.4244+03
19	6.8901+02	6.8748+02	6.8366+02	6.8969+02	6.8950+02	6.8969+02
20	7.6325+02	7.6193+02	7.5949+02	7.6654+02	7.6654+02	7.6730+02
21	8.7169+02	8.7059+02	8.6801+02	8.7675+02	8.7601+02	8.7619+02
22	9.8671+02	9.8599+02	9.8399+02	9.9270+02	9.9234+02	9.9216+02
23	1.0527+03	1.0516+03	1.0500+03	1.0585+03	1.0580+03	1.0585+03
24	1.1377+03	1.1374+03	1.1365+03	1.0931+03	1.0917+03	1.0924+03
25	1.2329+03	1.2322+03	1.2317+03	1.2408+03	1.2396+03	1.2402+03
26	1.3064+03	1.3062+03	1.3059+03	1.3151+03	1.3133+03	1.3138+03
27	1.4034+03	1.4032+03	1.4032+03	1.4126+03	1.4113+03	1.4118+03
28	1.5374+03	1.5373+03	1.5384+03	1.5471+03	1.5461+03	1.5465+03
29	1.4814+03	1.4816+03	1.4823+03	1.4918+03	1.4907+03	1.4915+03
30	1.5366+03	1.5361+03	1.5372+03	1.5451+03	1.5435+03	1.5445+03
31	1.6322+03	1.6316+03	1.6337+03	1.6413+03	1.6397+03	1.6403+03
32	1.6769+03	1.6761+03	1.6782+03	1.6859+03	1.6847+03	1.6853+03
33	1.7128+03	1.7115+03	1.7147+03	1.7215+03	1.7201+03	1.7215+03
34	1.8133+03	1.8127+03	1.8150+03	1.8244+03	1.8216+03	1.8223+03
35	1.7943+03	1.7913+03	1.7938+03	1.8031+03	1.7975+03	1.8000+03
36	1.8061+03	1.8033+03	1.8036+03	1.8106+03	1.8043+03	1.8056+03
37	1.7090+03	1.7061+03	1.7070+03	1.7113+03	1.7060+03	1.7065+03
38	1.6465+03	1.6449+03	1.6447+03	1.6482+03	1.6435+03	1.6449+03
39	1.5768+03	1.5731+03	1.5725+03	1.5788+03	1.5722+03	1.5743+03
40	1.6452+03	1.6397+03	1.6405+03	1.6526+03	1.6485+03	1.6500+03

# 300KW TRANSIENT DATA

	766	769	772	775	778	781
	BW 39	BW 40	BW 41	BW 42	BW 43	BW 44
1	1.7490+03	1.7482+03	1.7500+03	1.7473+03	1.7487+03	1.7398+03
2	1.7413+03	1.7411+03	1.7394+03	1.7384+03	1.7397+03	1.7308+03
3	1.7157+03	1.7153+03	1.7142+03	1.7119+03	1.7140+03	1.7049+03
4	1.6481+03	1.6475+03	1.6456+03	1.6436+03	1.6460+03	1.6370+03
5	1.7452+03	1.7450+03	1.7438+03	1.7430+03	1.7433+03	1.7336+03
6	1.8378+03	1.8369+03	1.8376+03	1.8342+03	1.8362+03	1.8244+03
7	1.7727+03	1.7699+03	1.7727+03	1.7698+03	1.7709+03	1.7618+03
8	1.7417+03	1.7411+03	1.7415+03	1.7401+03	1.7417+03	1.7338+03
9	1.7272+03	1.7265+03	1.7272+03	1.7254+03	1.7272+03	1.7217+03
10	1.6746+03	1.6742+03	1.6744+03	1.6738+03	1.6744+03	1.6685+03
11	1.6154+03	1.6160+03	1.6152+03	1.6148+03	1.6160+03	1.6110+03
12	1.6066+03	1.6066+03	1.6066+03	1.6060+03	1.6071+03	1.6026+03
13	1.6105+03	1.6105+03	1.6107+03	1.6097+03	1.6105+03	1.6065+03
14	1.7049+03	1.7059+03	1.7051+03	1.7044+03	1.7049+03	1.7005+03
15	1.6727+03	1.6732+03	1.6728+03	1.6724+03	1.6727+03	1.6690+03
16	1.5388+03	1.5388+03	1.5392+03	1.5379+03	1.5388+03	1.5365+03
17	1.4624+03	1.4612+03	1.4619+03	1.4609+03	1.4612+03	1.4614+03
18	1.4242+03	1.4242+03	1.4242+03	1.4242+03	1.4242+03	1.4243+03
19	6.8797+02	6.9141+02	6.9046+02	6.8855+02	6.8969+02	6.8767+02
20	7.6504+02	7.6842+02	7.6786+02	7.6560+02	7.6730+02	7.6306+02
21	8.7471+02	8.7767+02	8.7675+02	8.7508+02	8.7619+02	8.7077+02
22	9.9053+02	9.9379+02	9.9270+02	9.9089+02	9.9180+02	9.8617+02
23	1.0569+03	1.0596+03	1.0590+03	1.0574+03	1.0576+03	1.0516+03
24	1.0910+03	1.0935+03	1.0928+03	1.0913+03	1.0919+03	1.1376+03
25	1.2389+03	1.2411+03	1.2406+03	1.2394+03	1.2399+03	1.2321+03
26	1.3128+03	1.3150+03	1.3143+03	1.3129+03	1.3134+03	1.3059+03
27	1.4104+03	1.4123+03	1.4120+03	1.4108+03	1.4113+03	1.4027+03
28	1.5453+03	1.5473+03	1.5463+03	1.5453+03	1.5457+03	1.5369+03
29	1.4905+03	1.4917+03	1.4912+03	1.4903+03	1.4907+03	1.4811+03
30	1.5436+03	1.5451+03	1.5443+03	1.5432+03	1.5435+03	1.5354+03
31	1.6390+03	1.6403+03	1.6389+03	1.6377+03	1.6390+03	1.6306+03
32	1.6847+03	1.6861+03	1.6851+03	1.6834+03	1.6848+03	1.6751+03
33	1.7204+03	1.7218+03	1.7205+03	1.7191+03	1.7199+03	1.7111+03
34	1.8223+03	1.8233+03	1.8228+03	1.8211+03	1.8225+03	1.8111+03
35	1.8009+03	1.8009+03	1.8014+03	1.7970+03	1.7992+03	1.7877+03
36	1.8068+03	1.8054+03	1.8081+03	1.8053+03	1.8073+03	1.7977+03
37	1.7090+03	1.7068+03	1.7087+03	1.7066+03	1.7077+03	1.7021+03
38	1.6464+03	1.6441+03	1.6464+03	1.6438+03	1.6453+03	1.6413+03
39	1.5739+03	1.5715+03	1.5754+03	1.5728+03	1.5746+03	1.5686+03
40	1.6498+03	1.6490+03	1.6502+03	1.6490+03	1.6500+03	1.6350+03

## 300KW TRANSIENT DATA

	784	787	790	802	808	811
	BW 45	BW 46	BW 47	BW 50	BW 52	BW 53
1	1.7407+03	1.7414+03	1.7383+03	1.7388+03	1.7368+03	1.7369+03
2	1.7323+03	1.7347+03	1.7314+03	1.7320+03	1.7316+03	1.7320+03
3	1.7073+03	1.7091+03	1.7053+03	1.7072+03	1.7056+03	1.7069+03
4	1.6391+03	1.6414+03	1.6374+03	1.6391+03	1.6380+03	1.6388+03
5	1.7352+03	1.7376+03	1.7341+03	1.7342+03	1.7336+03	1.7346+03
6	1.8258+03	1.8276+03	1.8239+03	1.8228+03	1.8220+03	1.8214+03
7	1.7632+03	1.7646+03	1.7609+03	1.7609+03	1.7583+03	1.7579+03
8	1.7352+03	1.7360+03	1.7342+03	1.7341+03	1.7328+03	1.7328+03
9	1.7224+03	1.7230+03	1.7212+03	1.7211+03	1.7203+03	1.7200+03
10	1.6686+03	1.6698+03	1.6691+03	1.6688+03	1.8122+02	1.6704+03
11	1.6110+03	1.6123+03	1.6113+03	1.6108+03	1.6106+03	1.6100+03
12	1.6028+03	1.6039+03	1.6031+03	1.6031+03	1.6031+03	1.6029+03
13	1.6069+03	1.6078+03	1.6074+03	1.6071+03	1.6073+03	1.6069+03
14	1.7018+03	1.7016+03	1.7008+03	1.7007+03	1.7007+03	1.7010+03
15	1.6695+03	1.6706+03	1.6694+03	1.6689+03	1.6692+03	1.6690+03
16	1.5359+03	1.5373+03	1.5362+03	1.5365+03	1.5365+03	1.5363+03
17	1.4609+03	1.4619+03	1.4609+03	1.4607+03	1.4607+03	1.4609+03
18	1.4241+03	1.4241+03	1.4241+03	1.4240+03	1.4240+03	1.4238+03
19	6.8729+02	6.8462+02	6.8691+02	6.8825+02	6.8557+02	6.8806+02
20	7.6193+02	7.6062+02	7.6231+02	7.6269+02	7.6193+02	7.6344+02
21	8.7022+02	8.6912+02	8.7077+02	8.7132+02	8.7022+02	8.7151+02
22	9.8544+02	9.8436+02	9.8653+02	9.8562+02	9.8472+02	9.8599+02
23	1.0515+03	1.0500+03	1.0513+03	1.0515+03	1.0498+03	1.0513+03
24	1.1370+03	1.1361+03	1.1370+03	1.1370+03	1.1354+03	1.1372+03
25	1.2317+03	1.2314+03	1.2314+03	1.2317+03	1.2296+03	1.2312+03
26	1.3052+03	1.3052+03	1.3050+03	1.3049+03	1.3035+03	1.3045+03
27	1.4020+03	1.4020+03	1.4020+03	1.4017+03	1.3999+03	1.4010+03
28	1.5369+03	1.5376+03	1.5361+03	1.5364+03	1.5355+03	1.5363+03
29	1.4811+03	1.4814+03	1.4816+03	1.4813+03	1.4806+03	1.4814+03
30	1.5354+03	1.5361+03	1.5351+03	1.5351+03	1.5343+03	1.5351+03
31	1.6314+03	1.6324+03	1.6308+03	1.6306+03	1.6302+03	1.6308+03
32	1.6756+03	1.6774+03	1.6748+03	1.6748+03	1.6743+03	1.6751+03
33	1.7115+03	1.7128+03	1.7104+03	1.7104+03	1.7096+03	1.7108+03
34	1.8113+03	1.8133+03	1.8114+03	1.8097+03	1.8098+03	1.8105+03
35	1.7888+03	1.7913+03	1.7869+03	1.7863+03	1.7858+03	1.7866+03
36	1.7996+03	1.7990+03	1.7963+03	1.7960+03	1.7927+03	1.7932+03
37	1.7038+03	1.7042+03	1.7018+03	1.7011+03	1.6990+03	1.6994+03
38	1.6421+03	1.6420+03	1.6405+03	1.6404+03	1.6378+03	1.6381+03
39	1.5705+03	1.5687+03	1.5673+03	1.5676+03	1.5639+03	1.5642+03
40	1.6373+03	1.6353+03	1.6328+03	1.6339+03	1.6294+03	1.6307+03

## 300KW TRANSIENT DATA

	814	817	820	823	829	643
	BW 54	BW 55	BW 56	BW 57	BW 59	BW 60
1	1.7380+03	1.7449+03	1.7433+03	1.7421+03	1.7422+03	1.7456+03
2	1.7344+03	1.7397+03	1.7399+03	1.7389+03	1.7391+03	1.7399+03
3	1.7088+03	1.7142+03	1.7145+03	1.7132+03	1.7142+03	1.7138+03
4	1.6404+03	1.6456+03	1.6462+03	1.6456+03	1.6451+03	1.6449+03
5	1.7374+03	1.7430+03	1.7434+03	1.7420+03	1.7428+03	1.7434+03
6	1.8239+03	1.8330+03	1.8292+03	1.8284+03	1.8298+03	1.8328+03
7	1.7591+03	1.7658+03	1.7619+03	1.7611+03	1.7630+03	1.7661+03
8	1.7338+03	1.7390+03	1.7374+03	1.7366+03	1.7377+03	1.7388+03
9	1.7214+03	1.7245+03	1.7229+03	1.7226+03	1.7231+03	1.7250+03
10	1.6699+03	1.6749+03	1.6734+03	1.6730+03	1.6733+03	1.6742+03
11	1.6106+03	1.6133+03	1.6120+03	1.6117+03	1.6128+03	1.6136+03
12	1.6036+03	1.6053+03	1.6055+03	1.6057+03	1.6074+03	1.6066+03
13	1.6076+03	1.6094+03	1.6094+03	1.6094+03	1.6087+03	1.6097+03
14	1.7024+03	1.7041+03	1.7044+03	1.7025+03	1.7039+03	1.7043+03
15	1.6705+03	1.6719+03	1.6717+03	1.6712+03	1.6717+03	1.6725+03
16	1.5373+03	1.5381+03	1.5378+03	1.5374+03	1.5379+03	1.5383+03
17	1.4617+03	1.4614+03	1.4609+03	1.4605+03	1.4609+03	1.4615+03
18	1.4236+03	1.4235+03	1.4235+03	1.4235+03	1.4237+03	1.4237+03
19	6.8252+02	6.8797+02	6.8759+02	6.8797+02	6.8568+02	6.8339+02
20	7.5893+02	7.6617+02	7.6579+02	7.6560+02	7.6410+02	7.6203+02
21	8.6728+02	8.7471+02	8.7490+02	8.7416+02	8.7268+02	8.7176+02
22	9.8309+02	9.9017+02	9.8999+02	9.8962+02	9.8818+02	9.8818+02
23	1.0488+03	1.0562+03	1.0564+03	1.0553+03	1.0541+03	1.0539+03
24	1.1353+03	1.0899+03	1.0903+03	1.0896+03	1.0878+03	1.0890+03
25	1.2302+03	1.2368+03	1.2377+03	1.2364+03	1.2357+03	1.2366+03
26	1.3039+03	1.3116+03	1.3117+03	1.3100+03	1.3090+03	1.3104+03
27	1.4009+03	1.4083+03	1.4084+03	1.4068+03	1.4063+03	1.4079+03
28	1.5374+03	1.5439+03	1.5444+03	1.5430+03	1.5424+03	1.5442+03
29	1.4821+03	1.4897+03	1.4907+03	1.4890+03	1.4889+03	1.4905+03
30	1.5364+03	1.5417+03	1.5427+03	1.5415+03	1.5405+03	1.5423+03
31	1.6326+03	1.6376+03	1.6382+03	1.6366+03	1.6356+03	1.6377+03
32	1.6772+03	1.6821+03	1.6832+03	1.6815+03	1.6813+03	1.6832+03
33	1.7127+03	1.7188+03	1.7188+03	1.7175+03	1.7168+03	1.7190+03
34	1.8133+03	1.8198+03	1.8198+03	1.8186+03	1.8186+03	1.8213+03
35	1.7899+03	1.7962+03	1.7959+03	1.7951+03	8.6926+02	1.7967+03
36	1.7938+03	1.7981+03	1.7964+03	1.7943+03	1.7942+03	1.7996+03
37	1.6997+03	1.7023+03	1.7009+03	1.6997+03	1.6993+03	1.7033+03
38	1.6378+03	1.6403+03	1.6390+03	1.6385+03	1.6380+03	1.6406+03
39	1.5621+03	1.5671+03	1.5639+03	1.5634+03	1.5622+03	1.5668+03
40	1.6289+03	1.6436+03	1.6469+03	1.6419+03	1.6427+03	1.6474+03

## 300KW TRANSIENT DATA

	646	398	832	838	841	845
	BW 61	BW 62	BW 63	BW 65	PFST	PFMT
1	1.7427+03	1.7416+03	1.7337+03	1.7363+03	1.7316+03	2.3718+02
2	1.7383+03	1.7381+03	1.7295+03	1.7333+03	1.7286+03	2.3743+02
3	1.7129+03	1.7121+03	1.7045+03	1.7081+03	1.7031+03	2.3806+02
4	1.6443+03	1.6444+03	1.6367+03	1.6398+03	1.6365+03	2.3714+02
5	1.7420+03	1.7414+03	1.7327+03	1.7362+03	1.7299+03	2.4487+02
6	1.8292+03	1.8287+03	1.8184+03	1.8209+03	1.8132+03	2.6684+02
7	1.7625+03	1.7610+03	1.7539+03	1.7564+03	1.7435+03	2.8317+02
8	1.7376+03	1.7365+03	1.7304+03	1.7320+03	1.7261+03	2.8050+02
9	1.7231+03	1.7227+03	1.7176+03	1.7203+03	1.7155+03	2.7903+02
10	1.6733+03	1.6733+03	1.6675+03	1.6694+03	1.6683+03	2.7535+02
11	1.6123+03	1.6122+03	1.6087+03	1.6092+03	1.6059+03	2.7049+02
12	1.6057+03	1.6055+03	1.6020+03	1.6031+03	1.6031+03	2.6570+02
13	1.6089+03	1.6089+03	1.6058+03	1.6071+03	1.6080+03	2.5980+02
14	1.7038+03	1.7033+03	1.6996+03	1.7012+03	1.7024+03	2.5654+02
15	1.6719+03	1.6711+03	1.6679+03	1.6698+03	1.6708+03	2.5536+02
16	1.5374+03	1.5378+03	1.5355+03	1.5363+03	1.5388+03	2.4823+02
17	1.4604+03	1.4607+03	1.4599+03	1.4615+03	1.4647+03	2.4092+02
18	1.4237+03	1.4237+03	1.4236+03	1.4235+03	1.4253+03	2.3689+02
19	6.8645+02	6.8969+02	6.8882+02	6.8118+02	6.6286+02	9.3060+01
20	7.6654+02	7.6692+02	7.6475+02	7.5723+02	7.5432+02	1.4388+02
21	8.7323+02	8.7527+02	8.7188+02	8.6507+02	8.6350+02	1.4494+02
22	9.8890+02	9.9053+02	9.8671+02	9.8037+02	9.7459+02	1.4815+02
23	1.0555+03	1.0558+03	1.0515+03	1.0468+03	1.0412+03	1.5105+02
24	1.0890+03	1.0896+03	1.1368+03	1.1328+03	1.1277+03	1.5523+02
25	1.2363+03	1.2361+03	1.2307+03	1.2270+03	1.2283+03	1.6546+02
26	1.3102+03	1.3097+03	1.3037+03	1.3011+03	1.2963+03	1.7151+02
27	1.4074+03	1.4061+03	1.3997+03	1.3978+03	1.3916+03	1.7949+02
28	1.5440+03	1.5416+03	1.5350+03	1.5350+03	2.1970+03	7.8821+02
29	1.4895+03	1.4890+03	1.4806+03	1.4793+03	1.4759+03	2.0373+02
30	1.5415+03	1.5404+03	1.5335+03	1.5338+03	1.5257+03	2.0655+02
31	1.6366+03	1.6351+03	1.6289+03	1.6300+03	1.6232+03	2.2155+02
32	1.6823+03	1.6805+03	1.6732+03	1.6747+03	1.6673+03	2.2776+02
33	1.7177+03	1.7160+03	1.7077+03	1.7100+03	1.7004+03	2.3210+02
34	1.8191+03	1.8175+03	1.8076+03	1.8114+03	1.7964+03	2.6028+02
35	1.7943+03	1.7936+03	1.7835+03	1.7879+03	1.6735+02	1.0418+03
36	1.7961+03	1.7936+03	1.7893+03	1.7896+03	1.7819+03	3.0586+02
37	1.7012+03	1.6988+03	1.6966+03	1.6973+03	1.6957+03	3.0493+02
38	1.6387+03	1.6375+03	1.6352+03	1.6357+03	1.6385+03	2.9794+02
39	1.5650+03	1.5640+03	1.5611+03	1.5589+03	1.5629+03	2.8827+02
40	1.6440+03	1.6447+03	1.6284+03	1.6254+03	1.6366+03	2.6649+02

# 300KW TRANSIENT DATA

	848	851	854	857	862	865
	PFL0-R	SIT/I	SIT	SIT	SOT	SOT
1	5.4830+00	1.4164+03	1.4195+03	1.4187+03	1.7034+03	1.7044+03
2	5.5187+00	1.4147+03	1.4182+03	1.4172+03	1.6772+03	1.6780+03
3	5.5042+00	1.3934+03	1.3969+03	1.3962+03	1.6303+03	1.6319+03
4	5.6093+00	1.3318+03	1.3349+03	1.3334+03	1.5661+03	1.5666+03
5	9.2531+00	1.5669+03	1.5735+03	1.5727+03	1.6655+03	1.6668+03
6	9.0309+00	1.6447+03	1.6545+03	1.6543+03	1.7708+03	1.7724+03
7	9.2464+00	1.6222+03	1.6309+03	1.6304+03	1.6920+03	1.6936+03
8	9.3888+00	1.4927+03	1.4964+03	1.4927+03	1.7087+03	1.7110+03
9	9.3897+00	1.4823+03	1.4830+03	1.4813+03	1.7028+03	1.7041+03
10	9.5200+00	1.4005+03	1.3993+03	1.3978+03	1.6389+03	1.6403+03
11	9.5779+00	1.3096+03	1.3099+03	1.3070+03	1.5949+03	1.5962+03
12	9.6315+00	1.2356+03	1.2341+03	1.2325+03	1.4602+03	1.4616+03
13	9.7330+00	1.1760+03	1.1733+03	1.1711+03	1.3380+03	1.3385+03
14	9.4638+00	1.1316+03	1.1275+03	1.1254+03	1.2489+03	1.2494+03
15	9.5829+00	1.0887+03	1.0843+03	1.0826+03	1.1965+03	1.1976+03
16	7.3188+00	1.0390+03	1.0346+03	1.0328+03	1.1321+03	1.1336+03
17	3.4340+00	1.0103+03	1.0047+03	1.0038+03	1.0830+03	1.0842+03
18	2.8982+00	1.0121+03	1.0059+03	1.0052+03	1.0663+03	1.0671+03
19	7.6563+00	6.0692+02	5.9466+02	5.9015+02	6.8099+02	6.8118+02
20	7.5857+00	7.3594+02	7.3364+02	7.3231+02	7.5423+02	7.5329+02
21	7.3297+00	8.1264+02	8.1196+02	8.1027+02	8.5808+02	8.5808+02
22	7.1092+00	9.2106+02	9.2072+02	9.1926+02	9.7060+02	9.7078+02
23	6.8898+00	9.8867+02	9.8857+02	9.8713+02	1.0357+03	1.0362+03
24	6.7967+00	1.0674+03	1.0687+03	1.0678+03	1.1166+03	1.1168+03
25	6.4888+00	1.1419+03	1.1446+03	1.1438+03	1.1991+03	1.1998+03
26	6.4141+00	1.2206+03	1.2236+03	1.2230+03	1.2703+03	1.2708+03
27	6.3574+00	1.3045+03	1.3090+03	1.3085+03	1.3560+03	1.3562+03
28	6.2375-03	1.3636+03	1.3693+03	1.3698+03	1.4426+03	1.4429+03
29	6.0778+00	1.3899+03	1.3956+03	1.3964+03	1.4303+03	1.4312+03
30	5.9951+00	1.3771+03	1.3826+03	1.3828+03	1.4437+03	1.4440+03
31	5.8423+00	1.4533+03	1.4565+03	1.4570+03	1.5356+03	1.5366+03
32	5.7938+00	1.4889+03	1.4936+03	1.4936+03	1.5788+03	1.5809+03
33	5.7490+00	1.5348+03	1.5398+03	1.5403+03	1.6121+03	1.6123+03
34	5.5511+00	1.6932+03	1.7048+03	1.7048+03	1.7763+03	1.7774+03
35	5.4767-03	1.6359+03	1.6494+03	1.6494+03	1.7093+03	1.7105+03
36	6.2653+00	1.6183+03	1.6273+03	1.6270+03	1.7182+03	1.7198+03
37	6.5341+00	1.5858+03	1.5872+03	1.5874+03	1.6364+03	1.6382+03
38	6.6922+00	1.5192+03	1.5167+03	1.5175+03	1.5708+03	1.5727+03
39	5.8074+00	1.3857+03	1.3823+03	1.3829+03	1.4590+03	1.4598+03
40	6.1492+00	1.3995+03	1.3971+03	1.3968+03	1.5075+03	1.5076+03



## 300KW TRANSIENT DATA

	598	868	871	877	880	883
	SOT-D	SOT/IS	VSCIT	VCSIT	VCSOT	VCSOT
1	1.7092+03	1.7006+03	1.7038+03	1.7051+03	1.6990+03	1.6987+03
2	1.6796+03	1.6767+03	1.6807+03	1.6820+03	1.6705+03	1.6691+03
3	1.6358+03	1.6275+03	1.6308+03	1.6327+03	1.6264+03	1.6256+03
4	1.5700+03	1.5639+03	1.5660+03	1.5678+03	1.5617+03	1.5611+03
5	1.6712+03	1.6611+03	1.6698+03	1.6711+03	1.6658+03	1.6655+03
6	1.7779+03	1.7644+03	1.7744+03	1.7763+03	1.7703+03	1.7697+03
7	1.6995+03	1.6816+03	1.6913+03	1.6908+03	1.6816+03	1.6821+03
8	1.7162+03	1.7046+03	1.7032+03	1.7044+03	1.6991+03	1.6988+03
9	1.7097+03	1.7006+03	1.7012+03	1.7026+03	1.6967+03	1.6972+03
10	1.6415+03	1.6389+03	1.6391+03	1.6396+03	1.6325+03	1.6315+03
11	1.6035+03	1.5935+03	1.5945+03	1.5955+03	1.5885+03	1.5880+03
12	1.4635+03	1.4599+03	1.4613+03	1.4620+03	1.4527+03	1.4518+03
13	1.3394+03	1.3381+03	1.3342+03	1.3349+03	1.3274+03	1.3261+03
14	1.3041+03	1.2495+03	1.2316+03	1.2327+03	1.2180+03	1.2180+03
15	1.2781+03	1.1964+03	1.1788+03	1.1795+03	1.1594+03	1.1587+03
16	1.1888+03	1.1333+03	1.1175+03	1.1187+03	1.0528+03	1.0508+03
17	1.1704+03	1.0873+03	1.0699+03	1.0718+03	9.7091+02	9.6964+02
18	1.1623+03	1.0706+03	1.0315+03	1.0340+03	9.3585+02	9.3494+02
19	6.7373+02	6.7861+02	6.8645+02	6.8740+02	6.8072+02	6.8091+02
20	7.5103+02	7.5086+02	7.5502+02	7.5596+02	7.4788+02	7.4919+02
21	8.5697+02	8.5284+02	8.5281+02	8.5299+02	8.3867+02	8.4146+02
22	9.7277+02	9.7112+02	9.6672+02	9.6727+02	9.5224+02	9.5424+02
23	1.0387+03	1.0360+03	1.0331+03	1.0336+03	1.0195+03	1.0208+03
24	1.1214+03	1.1154+03	1.1166+03	1.1171+03	1.1043+03	1.1057+03
25	1.2026+03	1.1977+03	1.1992+03	1.2000+03	1.1894+03	1.1904+03
26	1.2719+03	1.2684+03	1.2707+03	1.2716+03	1.2628+03	1.2628+03
27	1.3596+03	1.3528+03	1.3566+03	1.3573+03	1.3489+03	1.3485+03
28	1.4477+03	1.4364+03	1.4433+03	1.4445+03	1.4391+03	1.4388+03
29	1.4278+03	1.4227+03	1.4303+03	1.4319+03	1.4093+03	1.4053+03
30	1.4492+03	1.4356+03	1.4423+03	1.4435+03	1.4380+03	1.4380+03
31	1.5439+03	1.5282+03	1.5365+03	1.5376+03	1.5317+03	1.5321+03
32	1.5849+03	1.5701+03	1.5804+03	1.5811+03	1.5757+03	1.5767+03
33	1.6192+03	1.6023+03	1.6140+03	1.6150+03	1.6103+03	1.6103+03
34	1.7834+03	1.7649+03	1.7796+03	1.7809+03	1.7756+03	1.7764+03
35	1.7165+03	1.6967+03	1.7121+03	1.7128+03	1.7053+03	1.7045+03
36	1.7274+03	1.7087+03	1.7123+03	1.7139+03	1.7023+03	1.7021+03
37	1.6433+03	1.6336+03	1.6307+03	1.6323+03	1.6197+03	1.6196+03
38	1.5771+03	3.2000+01	1.5668+03	1.5681+03	1.5529+03	1.5524+03
39	1.4694+03	1.4601+03	1.4546+03	1.4563+03	1.4211+03	1.4213+03
40	1.5170+03	1.5052+03	1.4995+03	1.4992+03	1.4732+03	1.4730+03

## 300KW TRANSIENT DATA

	886	889	892	895	899	902
	VCSOT	HCSOT	HCSOT	SFST	SFMT	SFLO-R
1	1.6978+03	1.7002+03	1.7016+03	1.4340+03	1.5800+02	8.9579-02
2	1.6697+03	1.6702+03	1.6724+03	1.4307+03	1.5915+02	8.5988-02
3	1.6253+03	1.6267+03	1.6280+03	1.3966+03	1.6157+02	5.0341-01
4	1.5611+03	1.5619+03	1.5637+03	1.3413+03	1.6412+02	8.9353-02
5	1.6652+03	1.6663+03	1.6674+03	1.5705+03	1.7987+02	2.1717-01
6	1.7688+03	1.7691+03	1.7699+03	1.6530+03	2.0096+02	2.0684-01
7	1.6806+03	1.6651+03	1.6653+03	1.6154+03	2.1508+02	2.0721-01
8	1.6976+03	1.6984+03	1.6996+03	1.5485+03	2.1297+02	2.5719-02
9	1.6959+03	1.6972+03	1.6988+03	1.4692+03	2.1024+02	1.2667-02
10	1.6307+03	1.6320+03	1.6338+03	1.3782+03	2.0628+02	1.2467-02
11	1.5873+03	1.5880+03	1.5896+03	1.3115+03	1.9933+02	2.0563-02
12	1.4515+03	1.4537+03	1.4552+03	1.2542+03	1.9454+02	1.2234-02
13	1.3259+03	1.3274+03	1.3286+03	1.1525+03	1.8644+02	1.2070-02
14	1.2174+03	1.2406+03	1.2413+03	1.0947+03	1.7995+02	7.9908-03
15	1.1587+03	1.1989+03	1.1990+03	1.0792+03	1.7504+02	1.1962-02
16	1.0517+03	1.1373+03	1.1377+03	1.0641+03	1.6895+02	9.9477-03
17	9.7018+02	1.0931+03	1.0925+03	1.0529+03	1.6368+02	9.9318-03
18	9.3549+02	1.0761+03	1.0771+03	1.0492+03	1.6166+02	9.9263-03
19	6.8072+02	6.5288+02	6.5327+02	6.0453+02	8.1620+01	1.0515+00
20	7.4844+02	7.3939+02	7.4091+02	7.4088+02	1.2892+02	1.1129+00
21	8.3979+02	8.2770+02	8.2807+02	8.1849+02	1.2866+02	1.1039+00
22	9.5333+02	9.4151+02	9.4169+02	9.1999+02	1.2923+02	1.2218+00
23	1.0195+03	1.0085+03	1.0091+03	9.8577+02	1.3081+02	1.2280+00
24	1.1044+03	1.0931+03	1.0935+03	1.0634+03	1.3191+02	1.1659+00
25	1.1894+03	1.1744+03	1.1751+03	1.1446+03	1.3996+02	1.1789+00
26	1.2620+03	1.2510+03	1.2518+03	1.2159+03	1.4190+02	1.2116+00
27	1.3473+03	1.3416+03	1.3429+03	1.2994+03	1.4762+02	1.2954+00
28	1.4380+03	1.4383+03	1.4396+03	2.1970+03	3.6545+02	4.0579-01
29	1.4043+03	1.4173+03	1.4182+03	1.3654+03	1.5853+02	4.8529-01
30	1.4368+03	1.4371+03	1.4378+03	1.3719+03	1.6003+02	4.5067-01
31	1.5309+03	1.5317+03	1.5324+03	1.4492+03	1.6534+02	4.2531-01
32	1.5749+03	1.5756+03	1.5772+03	1.4867+03	1.6832+02	3.7981-01
33	1.6084+03	1.6095+03	1.6098+03	1.5307+03	1.7088+02	4.6816-01
34	1.7745+03	1.7753+03	1.7758+03	1.6863+03	1.9836+02	4.6678-01
35	1.7035+03	1.6974+03	1.6986+03	1.6191+03	2.0738+02	3.5407-01
36	1.7008+03	1.7002+03	1.7004+03	1.6247+03	2.3311+02	4.9482-01
37	1.6185+03	1.6167+03	1.6173+03	1.5793+03	2.3559+02	5.4226-01
38	1.5514+03	1.5501+03	1.5499+03	1.5146+03	2.3059+02	5.4176-01
39	1.4196+03	1.4009+03	1.4012+03	1.3782+03	2.2305+02	2.9549-01
40	1.4725+03	1.4669+03	1.4684+03	1.4016+03	1.9929+02	2.8755-01

## 300KW TRANSIENT DATA

	906	909	912	915	916	917
	PGTC	PGTC	PGTC	PGTC	SPIP	SPOP
1	6.4064+02	6.1880+02	8.0702+02	3.7636+02	8.9100+01	1.1016+02
2	6.4299+02	6.1731+02	8.0433+02	3.7355+02	7.5480+01	9.7140+01
3	6.4320+02	6.1709+02	8.0664+02	3.6225+02	5.9580+01	8.1600+01
4	6.3178+02	6.1040+02	8.0782+02	3.4422+02	3.8820+01	6.1920+01
5	6.5182+02	6.2642+02	8.1219+02	3.6462+02	7.1880+01	1.3213+02
6	6.6220+02	6.5780+02	8.3848+02	4.0360+02	1.1886+02	1.3220+02
7	6.7566+02	6.7272+02	8.5924+02	4.1449+02	7.8420+01	1.3213+02
8	8.1341+02	8.1173+02	1.3115+03	3.9801+02	9.0240+01	9.9900+01
9	8.2840+02	7.7320+02	1.1727+03	3.9572+02	8.8560+01	9.7140+01
10	7.9316+02	7.3378+02	1.0424+03	4.0760+02	6.1860+01	6.6840+01
11	7.4689+02	7.0049+02	9.4545+02	3.9097+02	4.6680+01	5.2440+01
12	7.1627+02	6.7537+02	8.8066+02	3.7342+02	1.3620+01	1.8480+01
13	6.6132+02	6.4060+02	8.1706+02	3.4330+02	-5.2200+00	-6.0000-01
14	5.9827+02	5.9617+02	8.1101+02	3.1606+02	-1.3800+01	-1.0440+01
15	5.4580+02	5.5856+02	8.0862+02	2.8905+02	-1.5300+01	3.2800+01
16	4.7826+02	5.0202+02	8.0757+02	2.5998+02	-1.5300+01	9.9360+01
17	4.2962+02	4.6004+02	8.0614+02	2.4092+02	-1.5300+01	1.1383+02
18	4.0774+02	4.4350+02	8.0589+02	2.3017+02	-1.5300+01	1.1150+02
19	1.1506+02	2.6794+02	1.8798+02	1.0230+02	-1.5300+01	-1.0440+01
20	2.0756+02	3.7940+02	2.8312+02	1.5488+02	-1.5300+01	-1.0920+01
21	2.4445+02	4.2198+02	3.2646+02	1.5418+02	-1.5300+01	-1.0140+01
22	4.1016+02	4.8103+02	4.7311+02	1.6443+02	-1.5300+01	-4.5600+00
23	5.4729+02	5.2705+02	5.9563+02	1.7521+02	-1.5300+01	-6.1800+00
24	5.7963+02	5.7083+02	6.6387+02	1.8635+02	-1.5300+01	-4.6800+00
25	5.6040+02	6.0956+02	6.5080+02	2.0760+02	-1.5300+01	2.4000-01
26	5.4650+02	6.3367+02	6.4417+02	2.2802+02	-1.5000+01	6.4800+00
27	5.4166+02	6.6506+02	6.5098+02	2.5122+02	-6.4200+00	1.8960+01
28	2.1970+03	2.1970+03	2.1970+03	1.8687+03	9.9796-01	1.3285+02
29	5.6181+02	7.2337+02	7.4017+02	2.9522+02	7.3200+00	1.8000+01
30	5.6463+02	7.3739+02	7.7347+02	3.1259+02	8.3400+00	2.7000+01
31	5.8702+02	7.5723+02	8.0984+02	3.4045+02	2.9880+01	4.7220+01
32	5.9420+02	7.6388+02	8.0484+02	3.5199+02	4.1760+01	5.7600+01
33	6.0096+02	7.6700+02	8.0530+02	3.6032+02	5.2260+01	6.5400+01
34	6.4992+02	8.1122+02	8.4524+02	4.2093+02	1.2114+02	1.3200+02
35	6.6554+02	8.1101+02	8.6064+02	4.1748+02	8.6940+01	1.0200+02
36	6.6854+02	7.8405+02	8.3954+02	4.4614+02	9.2100+01	1.1280+02
37	6.7869+02	7.9199+02	8.5652+02	4.1642+02	6.0960+01	8.1600+01
38	6.7117+02	7.8069+02	8.4696+02	3.9542+02	4.0260+01	6.2580+01
39	6.5481+02	7.6445+02	4.7201+02	3.7861+02	1.0020+01	3.7320+01
40	5.9810+02	7.2080+02	7.4474+02	3.7509+02	1.7700+01	4.8120+01

## 300KW TRANSIENT DATA

	918	919	922	925	928	931
	BIP	BOP	VCAIT	VCAIT	VCAOT	VCAOT
1	9.0500+01	8.1435+01	4.2060+02	5.9021+02	7.2551+02	6.7117+02
2	7.8320+01	6.8570+01	4.2074+02	5.8823+02	7.1975+02	6.6471+02
3	6.2660+01	5.3380+01	4.1665+02	5.8315+02	7.0731+02	6.5463+02
4	4.2200+01	3.3540+01	3.9110+02	5.4962+02	6.7125+02	6.2298+02
5	7.7180+01	6.6090+01	3.9454+02	5.5042+02	6.8083+02	6.3867+02
6	1.2452+02	1.1181+02	4.4658+02	6.0575+02	7.3097+02	6.8335+02
7	8.6300+01	7.5855+01	4.8098+02	6.3203+02	7.4827+02	6.9842+02
8	9.3560+01	8.1435+01	4.6145+02	6.1049+02	7.1534+02	6.6713+02
9	9.0200+01	7.9265+01	4.5304+02	6.0692+02	7.1740+02	6.6884+02
10	6.2360+01	5.4775+01	4.5089+02	6.0917+02	7.1576+02	6.6889+02
11	4.7240+01	3.9430+01	4.3734+02	5.9735+02	6.9262+02	6.4749+02
12	1.3580+01	7.8100+00	4.1996+02	5.7928+02	6.7142+02	6.2926+02
13	-1.3000+01	-1.0480+01	3.9308+02	5.4588+02	6.2972+02	5.9176+02
14	-1.3000+01	-1.8385+01	3.5912+02	4.9850+02	5.8210+02	5.4866+02
15	-1.3000+01	-2.1950+01	3.2932+02	4.5634+02	5.4522+02	5.1662+02
16	-1.3000+01	-2.3500+01	2.9352+02	4.0474+02	4.9198+02	4.6954+02
17	-1.3000+01	-2.3500+01	2.6754+02	3.6866+02	4.5414+02	4.3610+02
18	-1.3000+01	-2.3500+01	2.5681+02	3.5305+02	4.3681+02	4.2097+02
19	-1.3000+01	-2.3500+01	1.2162+02	1.6298+02	2.6262+02	2.6262+02
20	-1.3000+01	-2.3500+01	1.6710+02	2.1108+02	3.1984+02	3.1624+02
21	-1.3000+01	-2.3500+01	1.7143+02	2.1957+02	3.3240+02	3.2458+02
22	-1.3000+01	-2.3500+01	1.7718+02	2.3168+02	3.5342+02	3.4146+02
23	-1.3000+01	-2.3500+01	1.8327+02	2.4155+02	3.7434+02	3.6055+02
24	-1.3000+01	-2.3500+01	1.9511+02	2.6143+02	4.0655+02	3.8939+02
25	-1.1080+01	-2.2415+01	2.1645+02	2.9195+02	4.5001+02	4.2833+02
26	-5.8000+00	-1.6835+01	2.3185+02	3.1686+02	4.8134+02	4.5582+02
27	5.1200+00	-6.6050+00	2.5439+02	3.5374+02	5.2195+02	4.9335+02
28	1.2312+02	1.3205+02	1.8596+03	2.1970+03	2.1970+03	2.1970+03
29	1.1720+01	3.4700+00	3.1686+02	4.4482+02	6.0575+02	5.6934+02
30	1.2080+01	5.4850+00	3.2444+02	4.5652+02	6.0996+02	5.7224+02
31	4.1900+01	2.6720+01	3.4735+02	4.8943+02	6.3926+02	5.9752+02
32	5.2460+01	3.8190+01	3.5991+02	5.0496+02	6.5608+02	6.1308+02
33	5.8400+01	4.8110+01	3.6990+02	5.1698+02	6.6942+02	6.2510+02
34	1.2662+02	1.1336+02	4.5146+02	6.1458+02	7.5369+02	7.0366+02
35	9.5960+01	8.2365+01	4.7474+02	6.3531+02	7.5706+02	7.0758+02
36	1.0592+02	9.6780+01	4.7377+02	6.0146+02	7.3928+02	6.9605+02
37	7.4240+01	5.7720+01	4.8248+02	6.2228+02	7.4550+02	7.0080+02
38	5.4620+01	3.6175+01	4.6048+02	5.9634+02	7.1268+02	6.6968+02
39	3.0620+01	1.0135+01	4.3690+02	5.6318+02	6.7831+02	6.3825+02
40	3.9320+01	1.5870+01	3.8468+02	4.9612+02	6.4900+02	6.0864+02

## 300KW TRANSIENT DATA

	946	949	952	955	961	964
	VCAT	VCAT	VCAT	VCAT	VCWT	VCWT
1	1.6532+03	1.6614+03	1.6560+03	1.5976+03	1.7115+03	1.7088+03
2	1.6337+03	1.6368+03	1.6354+03	1.5587+03	1.6807+03	1.6784+03
3	1.5861+03	1.5892+03	1.5878+03	1.5302+03	1.6383+03	1.6356+03
4	1.5178+03	1.5191+03	1.5200+03	1.4597+03	1.5720+03	1.5704+03
5	1.6031+03	1.6105+03	1.6045+03	1.5406+03	1.6767+03	1.6749+03
6	1.7050+03	1.7147+03	1.7064+03	1.5679+03	1.7812+03	1.7803+03
7	1.6436+03	1.6459+03	1.6455+03	1.5402+03	1.6959+03	1.6956+03
8	1.6282+03	1.6356+03	1.6277+03	1.4117+03	1.7090+03	1.7068+03
9	1.6448+03	1.6498+03	1.6471+03	1.4186+03	1.7084+03	1.7058+03
10	1.5939+03	1.5943+03	1.5966+03	1.3791+03	1.6426+03	1.6402+03
11	1.5256+03	1.5287+03	1.5265+03	1.2782+03	1.5966+03	1.5947+03
12	1.4392+03	1.4352+03	1.4418+03	1.2174+03	1.4631+03	1.4603+03
13	1.3185+03	1.3148+03	1.3211+03	1.0920+03	1.3373+03	1.3348+03
14	1.2133+03	1.2096+03	1.2117+03	9.9589+02	1.2316+03	1.2295+03
15	1.1448+03	1.1398+03	1.1293+03	9.5733+02	1.1624+03	1.1612+03
16	1.0624+03	1.0571+03	1.0304+03	9.3465+02	1.0731+03	1.0743+03
17	1.0002+03	9.9555+02	9.5649+02	9.1743+02	1.0006+03	1.0078+03
18	9.7228+02	9.6640+02	9.2272+02	1.0122+03	9.6963+02	9.8049+02
19	5.9525+02	5.8937+02	5.9147+02	6.7663+02	6.8683+02	6.8683+02
20	6.8444+02	6.8360+02	6.9158+02	2.0404+02	7.5653+02	7.5577+02
21	7.3975+02	7.4017+02	7.3975+02	1.3216+03	8.5020+02	8.5058+02
22	8.3628+02	8.3848+02	8.3628+02	1.7458+03	9.6383+02	9.6329+02
23	9.0647+02	9.0941+02	9.0773+02	8.6618+02	1.0297+03	1.0286+03
24	9.9685+02	1.0019+03	9.9895+02	1.0532+03	1.1147+03	1.1138+03
25	1.0933+03	1.1002+03	1.0958+03	1.1774+03	1.1974+03	1.1969+03
26	1.1699+03	1.1758+03	1.1729+03	1.2385+03	1.2702+03	1.2694+03
27	1.2605+03	1.2666+03	1.2640+03	1.2534+03	1.3565+03	1.3556+03
28	2.1970+03	2.1970+03	2.1970+03	2.1970+03	1.4478+03	1.4468+03
29	1.3792+03	1.3797+03	1.3810+03	1.4038+03	1.4255+03	1.4275+03
30	1.3817+03	1.3852+03	1.3839+03	1.3914+03	1.4472+03	1.4462+03
31	1.4708+03	1.4796+03	1.4730+03	1.4968+03	1.5417+03	1.5402+03
32	1.5127+03	1.5220+03	1.5154+03	1.5347+03	1.5853+03	1.5852+03
33	1.5445+03	1.5538+03	1.5467+03	1.5740+03	1.6190+03	1.6181+03
34	1.7124+03	1.7225+03	1.7152+03	1.8808+03	1.7854+03	1.7842+03
35	1.6596+03	1.6645+03	1.6614+03	1.8467+03	1.7162+03	1.7158+03
36	1.6402+03	1.6550+03	1.6416+03	1.9672+03	1.7149+03	1.7150+03
37	1.5938+03	1.5979+03	1.5951+03	1.8180+03	1.6331+03	1.6326+03
38	1.5263+03	1.5285+03	1.5272+03	1.7577+03	1.5657+03	1.5683+03
39	1.4178+03	1.4156+03	1.4183+03	1.5944+03	1.4433+03	1.4451+03
40	1.4344+03	1.4383+03	1.4352+03	1.6420+03	1.4890+03	1.4896+03

## 300KW TRANSIENT DATA

	970	973	976	979	982	985
	VCWT	VCWT	VCWT	VCWT	VCWD	VCWI
1	1.7078+03	1.7069+03	1.7058+03	1.7043+03	1.6590+03	1.6521+03
2	1.6774+03	1.6766+03	1.6758+03	1.6736+03	1.6441+03	1.6363+03
3	1.6343+03	1.6340+03	1.6324+03	1.6314+03	1.5925+03	1.5840+03
4	1.5692+03	1.5689+03	1.5668+03	1.5658+03	1.5232+03	1.5149+03
5	1.6743+03	1.6730+03	1.6711+03	1.6708+03	1.6031+03	1.5962+03
6	1.7788+03	1.7773+03	1.7755+03	1.7754+03	1.7076+03	1.7012+03
7	1.6943+03	1.6929+03	1.6907+03	1.6880+03	1.6540+03	1.6462+03
8	1.7052+03	1.7042+03	1.7026+03	1.7021+03	1.6221+03	1.6137+03
9	1.7049+03	1.7042+03	1.7026+03	1.7017+03	1.6494+03	1.6411+03
10	1.6393+03	1.6381+03	1.6369+03	1.6354+03	1.6030+03	1.5943+03
11	1.5937+03	1.5927+03	1.5908+03	1.5904+03	1.5194+03	1.5106+03
12	1.4591+03	1.4583+03	1.4575+03	1.4557+03	1.4535+03	1.4429+03
13	1.3336+03	1.3327+03	1.3324+03	1.3308+03	1.3303+03	1.3193+03
14	1.2174+03	1.2209+03	1.1726+03	1.1685+03	1.2244+03	1.2101+03
15	1.1319+03	1.1412+03	1.0715+03	1.0658+03	1.1575+03	1.1323+03
16	1.0299+03	1.0440+03	9.3330+02	9.2910+02	1.0750+03	1.0366+03
17	9.5335+02	9.7091+02	8.5633+02	8.5188+02	1.0108+03	9.6758+02
18	9.1810+02	9.3988+02	8.1709+02	8.1354+02	9.8161+02	9.3835+02
19	6.8778+02	6.8568+02	6.8320+02	6.8492+02	5.7334+02	6.0327+02
20	7.5709+02	7.5559+02	7.5295+02	7.5389+02	6.8066+02	7.0212+02
21	8.5225+02	8.5020+02	8.4555+02	8.4723+02	7.1963+02	7.1711+02
22	9.6274+02	9.6184+02	9.5786+02	9.6021+02	8.0979+02	8.0475+02
23	1.0288+03	1.0274+03	1.0234+03	1.0254+03	8.8237+02	8.7621+02
24	1.1122+03	1.1122+03	1.1096+03	1.1108+03	9.7758+02	9.7086+02
25	1.1948+03	1.1950+03	1.1929+03	1.1938+03	1.0776+03	1.0714+03
26	1.2676+03	1.2680+03	1.2652+03	1.2661+03	1.1569+03	1.1502+03
27	1.3543+03	1.3538+03	1.3514+03	1.3526+03	1.2507+03	1.2432+03
28	1.4450+03	1.4456+03	1.4431+03	1.4430+03	2.1970+03	2.1970+03
29	1.4319+03	1.4295+03	1.4190+03	1.4187+03	1.3902+03	1.3831+03
30	1.4437+03	1.4442+03	1.4428+03	1.4423+03	1.3833+03	1.3749+03
31	1.5378+03	1.5379+03	1.5366+03	1.5358+03	1.4712+03	1.4633+03
32	1.5819+03	1.5822+03	1.5806+03	1.5798+03	1.5135+03	1.5065+03
33	1.6155+03	1.6158+03	1.6155+03	1.6134+03	1.5452+03	1.5382+03
34	1.7821+03	1.7818+03	1.7813+03	1.7799+03	1.7178+03	1.7113+03
35	1.7144+03	1.7136+03	1.7126+03	1.7104+03	1.6694+03	1.6623+03
36	1.7136+03	1.7125+03	1.7096+03	1.7096+03	1.6380+03	1.6349+03
37	1.6318+03	1.6302+03	1.6281+03	1.6264+03	1.6054+03	1.5962+03
38	1.5658+03	1.5652+03	1.5612+03	1.5604+03	3.7650+02	1.5274+03
39	1.4485+03	1.4456+03	1.4381+03	1.4373+03	1.4305+03	1.4239+03
40	1.4914+03	1.4881+03	1.4823+03	1.4808+03	1.4406+03	1.4358+03

## 300KW TRANSIENT DATA

	988	991	1042	1048	994	997
	HCAOT	HCAOT	HCAOTU	HCAOTU	HCIAT	HCIAT
1	1.5976+03	1.6195+03	1.4059+03	1.4068+03	8.3776+01	1.3482+02
2	1.5750+03	1.5941+03	1.3921+03	1.3947+03	8.5668+01	1.3583+02
3	1.5333+03	1.5438+03	1.3568+03	1.3589+03	8.7912+01	1.3499+02
4	1.4742+03	1.4804+03	1.3061+03	1.3099+03	9.0464+01	1.3710+02
5	1.5133+03	1.5863+03	1.2595+03	1.2586+03	7.3216+01	1.1150+02
6	1.6523+03	1.6472+03	1.5080+03	1.4992+03	1.3086+02	1.4670+02
7	1.5055+03	1.4183+03	1.4505+03	1.4412+03	1.6262+02	1.3314+02
8	8.7793+02	1.6176+03	9.8950+02	9.7228+02	3.2000+01	1.0504+03
9	6.9556+02	1.6171+03	8.1542+02	8.0240+02	3.2000+01	1.2457+03
10	5.8333+02	1.5563+03	6.5789+02	6.4362+02	3.2000+01	1.2397+03
11	5.0994+02	1.5036+03	5.3634+02	5.2050+02	3.2000+01	1.1783+03
12	4.7148+02	1.3821+03	4.6312+02	4.5168+02	3.2000+01	1.1299+03
13	4.1955+02	1.2474+03	3.9088+02	3.9088+02	3.2000+01	1.0344+03
14	3.7518+02	1.1477+03	3.4302+02	3.4578+02	3.2000+01	9.5431+02
15	3.5140+02	1.0987+03	3.1210+02	3.1782+02	3.2000+01	9.1323+02
16	3.2518+02	1.0392+03	2.7696+02	2.8570+02	3.2000+01	8.3126+02
17	3.0682+02	9.9345+02	2.5742+02	2.6930+02	3.2000+01	7.7078+02
18	3.0313+02	9.8698+02	2.4772+02	2.5945+02	3.2000+01	7.3256+02
19	7.4096+01	9.3583+02	7.1896+01	7.6296+01	3.2000+01	1.1502+02
20	1.4168+02	4.9788+02	1.1396+02	1.1660+02	3.2000+01	3.5066+02
21	1.6117+02	6.5881+02	1.1585+02	1.1761+02	3.2000+01	4.4697+02
22	1.8180+02	8.0446+02	1.2012+02	1.2100+02	3.2000+01	5.5420+02
23	1.9634+02	9.2495+02	1.2342+02	1.2342+02	3.2000+01	6.2382+02
24	2.1623+02	1.0170+03	1.2791+02	1.2747+02	3.2000+01	7.0947+02
25	2.4058+02	1.1029+03	1.3957+02	1.3649+02	3.2000+01	7.8984+02
26	2.5734+02	1.1779+03	1.4582+02	1.4098+02	5.9735+02	8.7846+02
27	2.8298+02	1.2678+03	1.5299+02	1.4727+02	3.2000+01	9.7165+02
28	2.1550+03	2.1970+03	5.4734+02	4.6022+02	3.2000+01	2.1970+03
29	3.4210+02	1.3633+03	1.7525+02	1.6685+02	3.2000+01	1.0750+03
30	3.4330+02	1.3691+03	1.7844+02	1.7130+02	3.2000+01	1.0760+03
31	3.6919+02	1.4602+03	1.9427+02	1.8943+02	3.2000+01	1.1428+03
32	3.8252+02	1.5013+03	1.9748+02	1.9088+02	3.2000+01	1.1757+03
33	3.9190+02	1.5335+03	2.0070+02	1.9234+02	3.2000+01	1.1999+03
34	4.6246+02	1.6883+03	2.1966+02	1.9942+02	3.2000+01	1.3237+03
35	1.5652+03	1.5164+03	1.4517+03	1.4416+03	1.5286+02	1.5066+02
36	1.5726+03	1.5136+03	1.4745+03	1.4820+03	1.7474+02	1.6676+02
37	1.5026+03	1.4414+03	1.4304+03	1.4436+03	1.7130+02	1.6668+02
38	1.4370+03	1.3695+03	1.3712+03	1.3878+03	1.6148+02	1.6324+02
39	1.1853+03	1.0366+03	1.1762+03	1.1867+03	1.6430+02	1.4670+02
40	1.2140+03	1.0840+03	1.2069+03	1.2170+03	1.5048+02	1.2628+02

## 300KW TRANSIENT DATA

	1000	1003	1006	1009	1012	1015
	HCAT	HCAT	HCAT	HCAT	HCAT	HCAT
1	5.6758+02	6.3321+02	1.0202+03	9.1609+02	1.2432+03	1.0964+03
2	5.5759+02	6.2083+02	1.0040+03	9.0319+02	1.2223+03	1.0835+03
3	5.2991+02	5.9206+02	9.6246+02	8.6631+02	1.1777+03	1.0465+03
4	5.0122+02	5.5754+02	9.0819+02	8.2202+02	1.1226+03	1.0002+03
5	8.0631+02	8.5656+02	1.2402+03	1.1166+03	1.4271+03	1.2480+03
6	4.4042+02	4.8486+02	8.5776+02	7.9665+02	1.1003+03	9.9085+02
7	2.7466+02	2.9536+02	5.6898+02	5.2542+02	7.8245+02	7.1382+02
8	1.6462+03	1.6273+03	1.6167+03	1.6604+03	1.6202+03	1.6749+03
9	1.6554+03	1.6334+03	1.6220+03	1.6670+03	1.6237+03	1.6793+03
10	1.6008+03	1.5779+03	1.5660+03	1.6100+03	1.5660+03	1.6207+03
11	1.5494+03	1.5261+03	1.5133+03	1.5564+03	1.5155+03	1.5670+03
12	1.4379+03	1.4116+03	1.4049+03	1.4458+03	1.4053+03	1.4542+03
13	1.3160+03	1.2900+03	1.2806+03	1.3206+03	1.2831+03	1.3304+03
14	1.2247+03	1.1994+03	1.1858+03	1.2280+03	1.1906+03	1.2385+03
15	1.1810+03	1.1566+03	1.1419+03	1.1837+03	1.1478+03	1.1955+03
16	1.1039+03	1.0794+03	1.0818+03	1.1238+03	1.0886+03	1.1364+03
17	1.0229+03	9.9807+02	1.0187+03	1.0602+03	1.0283+03	1.0758+03
18	9.8740+02	9.6178+02	9.8908+02	1.0294+03	1.0008+03	1.0470+03
19	2.4613+02	3.1598+02	2.2490+02	2.7010+02	2.0422+02	2.9526+02
20	6.2272+02	6.3052+02	5.8752+02	6.3892+02	5.9130+02	6.4564+02
21	7.2295+02	7.2715+02	6.8835+02	7.4059+02	6.9521+02	7.4689+02
22	8.5000+02	8.5120+02	8.1580+02	8.6552+02	8.2264+02	8.7256+02
23	9.3125+02	9.2915+02	8.9681+02	9.4469+02	9.0311+02	9.5225+02
24	1.0254+03	1.0187+03	9.9097+02	1.0351+03	9.9475+02	1.0439+03
25	1.1241+03	1.1134+03	1.0869+03	1.1308+03	1.0893+03	1.1409+03
26	1.2079+03	1.1924+03	1.1699+03	1.2146+03	1.1750+03	1.2234+03
27	1.3043+03	1.2834+03	1.2674+03	1.3112+03	1.2724+03	1.3201+03
28	2.1970+03	2.1970+03	2.1970+03	2.1970+03	2.1970+03	2.1970+03
29	1.3876+03	1.3642+03	1.3533+03	1.3942+03	1.3562+03	1.4051+03
30	1.4037+03	1.3808+03	1.3670+03	1.4100+03	1.3699+03	1.4185+03
31	1.4963+03	1.4726+03	1.4589+03	1.5029+03	1.4607+03	1.5117+03
32	1.5378+03	1.5154+03	1.5008+03	1.5444+03	1.5022+03	1.5536+03
33	1.5687+03	1.5463+03	1.5331+03	1.5758+03	1.5340+03	1.5855+03
34	1.7281+03	1.7041+03	1.6918+03	1.7354+03	1.6891+03	1.7455+03
35	3.6462+02	3.9366+02	7.1753+02	6.7831+02	9.5473+02	8.6016+02
36	3.7597+02	4.0193+02	7.2416+02	6.8116+02	9.6094+02	8.6473+02
37	3.5480+02	3.7720+02	6.7604+02	6.4018+02	9.0374+02	8.1832+02
38	3.3272+02	3.5480+02	6.3472+02	6.0222+02	8.5000+02	7.7272+02
39	2.2534+02	2.3647+02	4.0642+02	3.8310+02	5.5614+02	5.2578+02
40	2.1064+02	2.2384+02	4.0404+02	3.7896+02	5.5860+02	5.2824+02



# 300KW TRANSIENT DATA

	1018	1021	1024	1027	1030	1033
	HCAT	HCAT	HCAT	HCAT	HCAT	HCAT
1	1.7717+03	1.2096+03	1.4860+03	1.4345+03	1.2382+02	1.5098+03
2	1.6345+03	1.1982+03	1.4597+03	1.4166+03	1.2571+02	1.4870+03
3	1.3948+03	1.1567+03	1.4154+03	1.3686+03	1.2751+02	1.4396+03
4	1.1951+03	1.1070+03	1.3534+03	1.3137+03	1.3138+02	1.3811+03
5	2.0796+03	1.3327+03	1.5890+03	1.5054+03	1.4362+02	1.5547+03
6	1.4105+03	1.1531+03	1.3633+03	1.3775+03	1.5946+02	1.4697+03
7	1.1385+03	8.9391+02	1.0890+03	1.0965+03	1.6819+02	1.2067+03
8	2.1970+03	1.6798+03	1.6430+03	1.6718+03	1.5893+02	1.6828+03
9	2.1970+03	1.6841+03	1.6448+03	1.6758+03	1.5800+02	1.6846+03
10	2.1491+03	1.6251+03	1.5867+03	1.6163+03	1.6025+02	1.6273+03
11	1.7694+03	1.5714+03	1.5344+03	1.5630+03	1.5682+02	1.5718+03
12	1.2939+03	1.4630+03	1.4256+03	1.4550+03	1.5312+02	1.4630+03
13	1.0551+03	1.3383+03	1.3041+03	1.3326+03	1.4744+02	1.3405+03
14	1.0165+03	1.2411+03	1.2066+03	1.2348+03	1.4142+02	1.2411+03
15	9.9513+02	1.1986+03	1.1616+03	1.1920+03	1.3666+02	1.1973+03
16	1.0103+03	1.1385+03	1.1035+03	1.1326+03	1.3138+02	1.1381+03
17	1.0056+03	1.0930+03	1.0602+03	1.0886+03	1.2610+02	1.0938+03
18	9.9958+02	1.0728+03	1.0424+03	1.0723+03	1.2373+02	1.0781+03
19	8.4174+02	2.7456+02	2.2226+02	2.6878+02	6.1336+01	3.5498+02
20	3.2000+01	6.5076+02	6.0600+02	6.3850+02	1.0120+02	6.5692+02
21	1.2555+03	7.5235+02	7.0753+02	7.4059+02	1.0045+02	7.4899+02
22	6.3514+02	8.7652+02	8.3320+02	8.6552+02	1.0164+02	8.7256+02
23	1.4702+03	9.5519+02	9.1319+02	9.4511+02	1.0274+02	9.5099+02
24	6.0293+02	1.0456+03	1.0048+03	1.0376+03	1.0327+02	1.0422+03
25	5.8333+02	1.1400+03	1.0989+03	1.1325+03	1.0921+02	1.1358+03
26	7.4525+02	1.2234+03	1.1845+03	1.2163+03	1.1106+02	1.2201+03
27	9.3301+02	1.3217+03	1.2834+03	1.3150+03	1.1427+02	1.3163+03
28	2.1970+03	2.1970+03	2.1970+03	2.1970+03	4.9664+01	2.1970+03
29	1.0030+03	1.4126+03	1.3788+03	1.4089+03	1.2030+02	1.4169+03
30	1.0171+03	1.4229+03	1.3861+03	1.4154+03	1.2012+02	1.4220+03
31	1.2076+03	1.5161+03	1.4787+03	1.5095+03	1.2135+02	1.5166+03
32	1.3097+03	1.5585+03	1.5211+03	1.5514+03	1.2412+02	1.5594+03
33	1.3389+03	1.5907+03	1.5533+03	1.5837+03	1.2690+02	1.5926+03
34	1.5600+03	1.7529+03	1.3882+02	1.8601+03	1.5378+02	1.7538+03
35	1.3318+03	1.0333+03	1.2360+03	1.2394+03	1.6643+02	1.3375+03
36	9.1432+02	1.0370+03	1.2410+03	1.2401+03	1.8609+02	1.3410+03
37	9.3608+02	9.8354+02	1.1777+03	1.1756+03	1.8054+02	1.2734+03
38	8.6420+02	9.3062+02	1.1156+03	1.1151+03	1.7592+02	1.2090+03
39	9.6901+02	6.6018+02	7.9791+02	8.0673+02	1.7189+02	9.0139+02
40	1.1931+03	6.7478+02	8.2044+02	8.3056+02	1.5532+02	9.2852+02

# 300KW TRANSIENT DATA

	1036	1039	1045	1051	1057	1060
	HCAT	HCAT	HCAT	HCAT	HCAT	HCAT
1	1.5916+03	1.5617+03	1.6173+03	1.5981+03	1.6230+03	1.6173+03
2	1.5662+03	1.5354+03	1.5900+03	1.5680+03	1.5932+03	1.5913+03
3	1.5201+03	1.4915+03	1.5443+03	1.5280+03	1.5526+03	1.5469+03
4	1.4553+03	1.4307+03	1.4795+03	1.4654+03	1.4905+03	1.4843+03
5	1.6110+03	1.5890+03	1.6119+03	1.6128+03	1.6208+03	1.5828+03
6	1.5780+03	1.5375+03	1.6208+03	1.5872+03	1.6344+03	1.6546+03
7	1.3394+03	1.2986+03	1.4014+03	1.3723+03	1.4421+03	1.4879+03
8	1.6361+03	1.6762+03	1.6339+03	1.6784+03	1.6670+03	1.5708+03
9	1.6379+03	1.6780+03	1.6347+03	1.6793+03	1.6665+03	1.5682+03
10	1.5788+03	1.6202+03	1.5766+03	1.6194+03	1.6081+03	1.5123+03
11	1.5269+03	1.5661+03	1.5230+03	1.5665+03	1.5560+03	1.4662+03
12	1.4194+03	1.4568+03	1.4116+03	1.4542+03	1.4418+03	1.3573+03
13	1.2988+03	1.3352+03	1.2887+03	1.3308+03	1.3206+03	1.2448+03
14	1.1990+03	1.2364+03	1.1950+03	1.2381+03	1.2301+03	1.1636+03
15	1.1557+03	1.1933+03	1.1520+03	1.1955+03	1.1881+03	1.1238+03
16	1.0951+03	1.1343+03	1.0922+03	1.1377+03	1.1310+03	1.0690+03
17	1.0523+03	1.0902+03	1.0485+03	1.0926+03	1.0870+03	1.0275+03
18	1.0353+03	1.0736+03	1.0319+03	1.0773+03	1.0710+03	1.0101+03
19	3.7430+02	4.0554+02	3.6188+02	4.2566+02	4.2474+02	3.6638+02
20	6.1744+02	6.6572+02	6.1612+02	6.7012+02	6.8024+02	6.2008+02
21	6.9961+02	7.4983+02	6.9785+02	7.5109+02	7.5571+02	6.8751+02
22	8.2176+02	8.6816+02	8.1832+02	8.7080+02	8.7256+02	8.2704+02
23	9.0185+02	9.4679+02	8.9765+02	9.4889+02	9.4931+02	9.1151+02
24	9.9307+02	1.0359+03	9.8971+02	1.0397+03	1.0460+03	9.9097+02
25	1.0877+03	1.1304+03	1.0861+03	1.1350+03	1.1358+03	1.0732+03
26	1.1737+03	1.2154+03	1.1750+03	1.2201+03	1.2188+03	1.1414+03
27	1.2674+03	1.3074+03	1.2631+03	1.3079+03	1.2986+03	1.2089+03
28	2.1970+03	2.1970+03	2.1970+03	2.1970+03	2.1970+03	2.1970+03
29	1.3722+03	1.4105+03	1.3705+03	1.4118+03	1.4026+03	1.3098+03
30	1.3773+03	1.4163+03	1.3760+03	1.4185+03	1.4087+03	1.3198+03
31	1.4708+03	1.5104+03	1.4690+03	1.5122+03	1.5020+03	1.4065+03
32	1.5123+03	1.5528+03	1.5110+03	1.5536+03	1.5435+03	1.4458+03
33	1.5450+03	1.5841+03	1.5432+03	1.5859+03	1.5753+03	1.4763+03
34	1.7055+03	1.7451+03	1.7019+03	1.7465+03	1.7331+03	1.6248+03
35	1.4640+03	1.4213+03	1.5107+03	1.4957+03	1.5516+03	1.5635+03
36	1.4718+03	1.4252+03	1.5202+03	1.5009+03	1.5563+03	1.5739+03
37	1.3982+03	1.3544+03	1.4454+03	1.4264+03	1.4832+03	1.5008+03
38	1.3308+03	1.2873+03	1.3777+03	1.3602+03	1.4150+03	1.4335+03
39	1.0039+03	9.8749+02	1.0693+03	1.0654+03	1.1342+03	1.1737+03
40	1.0394+03	1.0188+03	1.1046+03	1.0962+03	1.1651+03	1.2044+03

## 300KW TRANSIENT DATA

	1063	1066	1069	1078	1086	1095
	HCAT	HCWD	HCWI	P BARO	W AIR	Q AIR
1	1.6389+03	1.6383+03	1.5360+03	1.4540+01	5.6241-02	1.8659+01
2	1.6116+03	1.6129+03	1.5108+03	1.4594+01	5.6078-02	1.8386+01
3	1.5689+03	1.5642+03	1.4591+03	1.4540+01	5.5418-02	1.7621+01
4	1.5063+03	1.4977+03	1.3900+03	1.4540+01	0.	0.
5	1.6261+03	1.6252+03	1.5657+03	1.4540+01	3.2074-02	9.4842+00
6	1.6662+03	1.6616+03	1.4863+03	1.4540+01	9.7242-02	3.4176+01
7	1.4936+03	1.4353+03	1.0989+03	1.4540+01	1.9435-01	6.4781+01
8	1.6268+03	1.6820+03	1.6811+03	1.4540+01	0.	0.
9	1.6255+03	1.6793+03	1.6788+03	1.4540+01	0.	0.
10	1.5678+03	1.6167+03	1.6176+03	1.4540+01	0.	0.
11	1.5217+03	1.5678+03	1.5683+03	1.4540+01	0.	-0.
12	1.4095+03	1.4543+03	1.4548+03	1.4540+01	0.	-0.
13	1.2975+03	1.3294+03	1.3269+03	1.4540+01	0.	-0.
14	1.2138+03	1.2281+03	1.2290+03	1.4540+01	0.	-0.
15	1.1738+03	1.1838+03	1.1842+03	1.4540+01	0.	-0.
16	1.1184+03	1.1241+03	1.1250+03	1.4540+01	0.	-0.
17	1.0770+03	1.0804+03	1.0709+03	1.4540+01	0.	-0.
18	1.0609+03	1.0627+03	1.0459+03	1.4540+01	0.	-0.
19	4.1968+02	3.8798+02	1.3134+02	1.4540+01	0.	0.
20	6.7646+02	6.4774+02	6.1128+02	1.4490+01	0.	-0.
21	7.4899+02	7.2089+02	7.1374+02	1.4540+01	0.	-0.
22	8.7916+02	8.4055+02	8.4228+02	1.4540+01	0.	-0.
23	9.6149+02	9.2151+02	9.2697+02	1.4540+01	0.	-0.
24	1.0439+03	1.0166+03	1.0221+03	1.4540+01	0.	-0.
25	1.1274+03	1.1160+03	1.1223+03	1.4540+01	0.	-0.
26	1.1981+03	1.2130+03	1.2167+03	1.4540+01	0.	-0.
27	1.2687+03	1.3056+03	1.3216+03	1.4540+01	0.	-0.
28	2.1970+03	2.1970+03	2.1970+03	1.4540+01	0.	-0.
29	1.3659+03	1.4097+03	1.4050+03	1.4540+01	0.	-0.
30	1.3760+03	1.4175+03	1.4193+03	1.4540+01	0.	-0.
31	1.4638+03	1.5122+03	1.5139+03	1.4540+01	0.	-0.
32	1.5039+03	1.5553+03	1.5558+03	1.4540+01	0.	-0.
33	1.5335+03	1.5875+03	1.5879+03	1.4485+01	0.	-0.
34	1.6856+03	1.7481+03	1.7481+03	1.4540+01	0.	-0.
35	1.5841+03	1.5679+03	1.3315+03	1.4540+01	1.3048-01	4.3399+01
36	1.5925+03	1.5789+03	1.3309+03	1.4540+01	1.2971-01	4.3678+01
37	1.5171+03	1.4983+03	1.2475+03	1.4540+01	1.3079-01	4.2613+01
38	1.4493+03	1.4257+03	1.1670+03	1.4540+01	1.3171-01	4.1046+01
39	1.1836+03	1.1020+03	7.2206+02	1.4540+01	2.7469-01	7.1318+01
40	1.2115+03	1.1417+03	7.5356+02	1.4540+01	2.6527-01	7.2136+01

# 300KW TRANSIENT DATA

1099

Q PRI

1	4.0897+01
2	2.7365+01
3	3.5115+01
4	3.3616+01
5	3.4007+01
6	6.4037+01
7	7.8859+01
8	3.4462+01
9	2.9749+01
10	1.0808+01
11	2.1380+01
12	5.7333+00
13	6.2764+00
14	6.5399+00
15	5.2031+00
16	3.2597+00
17	1.0384+00
18	1.1682+00
19	1.6638+01
20	6.9526+00
21	1.2239+01
22	1.5875+01
23	1.4439+01
24	1.5082+01
25	1.9526+01
26	1.9078+01
27	2.3201+01
28	2.2486-02
29	7.6576+00
30	1.8920+01
31	2.3905+01
32	2.5738+01
33	2.6376+01
34	2.7263+01
35	5.2497-02
36	7.6981+01
37	5.6832+01
38	5.5723+01
39	7.8459+01
40	8.8856+01

## 300KW TRANSIENT DATA

	401	402	609	612	614	617
	DATE	TIME	PIT	PIT	PIT/I	POT
1	6.2663+00	2.1320+03	1.7094+03	1.7102+03	1.7071+03	1.6560+03
2	6.2663+00	2.2000+03	1.7403+03	1.7414+03	1.7371+03	1.6854+03
3	6.2763+00	4.4800+02	1.7660+03	1.7672+03	1.7625+03	1.7122+03
4	6.2763+00	5.1500+02	1.7360+03	1.5950+03	1.5515+03	1.6841+03
5	6.2763+00	7.1500+02	1.6908+03	1.6919+03	1.6886+03	1.6495+03
6	6.2763+00	7.4500+02	1.7173+03	1.7174+03	1.7149+03	1.6942+03
7	6.2763+00	1.1300+03	1.8011+03	1.8025+03	1.7876+03	1.7733+03
8	6.2763+00	1.2000+03	1.8514+03	1.8523+03	1.8382+03	1.8324+03
9	6.2763+00	1.2150+03	1.8297+03	1.8311+03	1.8180+03	1.7991+03
10	6.2763+00	1.2270+03	1.7986+03	1.8003+03	1.7882+03	1.7205+03
11	6.2763+00	1.2330+03	1.7876+03	1.7890+03	1.7767+03	1.7192+03
12	6.2763+00	1.2570+03	1.8070+03	1.8094+03	1.7973+03	1.7449+03
13	6.2763+00	1.9350+03	1.7994+03	1.8012+03	1.7953+03	1.7431+03
14	6.2763+00	1.9580+03	1.8142+03	1.8161+03	1.8111+03	1.7640+03
15	6.2763+00	2.0310+03	1.8357+03	1.8363+03	1.8334+03	1.7979+03
16	6.2863+00	5.7000+01	1.7967+03	1.7982+03	1.7949+03	1.7638+03
17	6.2863+00	3.3000+02	1.7407+03	1.7431+03	1.7333+03	1.7085+03
18	6.2863+00	3.5900+02	1.7188+03	1.7197+03	1.7117+03	1.6861+03
19	6.2863+00	7.1500+02	1.7949+03	1.7971+03	1.7887+03	1.7756+03
20	6.2863+00	7.4500+02	1.7387+03	1.7398+03	1.7328+03	1.7081+03
21	6.2863+00	8.1100+02	1.6411+03	1.6428+03	1.6375+03	1.5791+03
22	6.2863+00	8.3700+02	1.6555+03	1.6570+03	1.6520+03	1.5934+03
23	6.2863+00	1.1450+03	1.7637+03	1.7659+03	1.7547+03	1.6979+03
24	6.2863+00	1.2150+01	1.7473+03	1.7490+03	1.7393+03	1.7041+03
25	6.2863+00	1.2450+03	1.7824+03	1.7846+03	1.7772+03	1.7473+03
26	6.2863+00	1.3150+03	1.7971+03	1.7989+03	1.7877+03	1.7412+03
27	6.2863+00	1.4450+03	1.8221+03	1.8241+03	1.8065+03	1.7476+03
28	6.2863+00	1.5500+03	1.6979+03	1.7006+03	1.6867+03	1.6364+03
29	6.2863+00	1.6050+03	1.6607+03	1.6626+03	1.6526+03	1.6057+03
30	6.2863+00	1.6210+03	1.6218+03	1.6245+03	1.6169+03	1.5744+03
31	6.2863+00	1.6310+03	1.5781+03	1.5798+03	1.5761+03	1.5351+03
32	6.2863+00	1.6420+03	1.5500+03	1.5513+03	1.5500+03	1.5107+03
33	6.2863+00	1.6530+03	1.4935+03	1.4951+03	1.4962+03	1.4535+03
34	6.2863+00	1.7240+03	1.4092+03	1.4098+03	1.4180+03	1.3938+03
35	6.2863+00	1.7530+03	1.3427+03	1.3427+03	1.3538+03	1.3363+03
36	6.2863+00	1.8180+03	1.2997+03	1.3004+03	1.3110+03	1.2930+03
37	6.2863+00	1.8490+03	1.2279+03	1.2284+03	1.2389+03	1.2257+03
38	6.2863+00	1.9410+03	1.1362+03	1.1369+03	1.1442+03	1.1346+03
39	6.2863+00	2.0450+03	1.0269+03	1.0271+03	1.0347+03	1.0241+03

## 300KW TRANSIENT DATA

	620	622	625	628	631	637
	POT	POT/I	BP 1	BP 2	BP 3	BP 5
1	1.6560+03	1.6565+03	1.6511+03	1.6505+03	1.6731+03	1.6471+03
2	1.6848+03	1.6841+03	1.6796+03	1.6795+03	1.7029+03	1.6753+03
3	1.7128+03	1.7127+03	1.7035+03	1.7039+03	1.7272+03	1.7071+03
4	1.7347+03	1.7361+03	1.6880+03	1.6915+03	1.6892+03	1.8375+03
5	1.6492+03	1.6508+03	1.6410+03	1.6415+03	1.6574+03	1.6341+03
6	1.6937+03	1.6942+03	1.6811+03	1.6808+03	1.6877+03	1.6587+03
7	1.7728+03	1.7619+03	1.7756+03	1.7764+03	1.7772+03	1.7485+03
8	1.8312+03	1.8211+03	1.8312+03	1.9425+02	1.8250+03	1.7912+03
9	1.7991+03	1.7889+03	1.7948+03	1.7971+03	1.8017+03	1.7838+03
10	1.7201+03	1.7121+03	1.7264+03	1.7253+03	1.7589+03	1.7474+03
11	1.7184+03	1.7108+03	1.7209+03	1.7209+03	1.7496+03	1.7352+03
12	1.7443+03	1.7373+03	1.7425+03	1.7417+03	1.7691+03	1.7444+03
13	1.7426+03	1.7419+03	1.7379+03	1.7376+03	1.7613+03	1.7375+03
14	1.7635+03	1.7633+03	1.7568+03	1.7572+03	1.7782+03	1.7511+03
15	1.7977+03	1.7982+03	1.7869+03	1.7872+03	1.8004+03	1.7727+03
16	1.7630+03	1.7630+03	1.7518+03	1.7523+03	1.7669+03	1.7454+03
17	1.7079+03	1.7028+03	1.6981+03	1.6978+03	1.7119+03	1.6957+03
18	1.6858+03	1.6814+03	1.6750+03	1.6756+03	1.6889+03	1.6728+03
19	1.7752+03	1.7707+03	1.7628+03	1.7645+03	1.7683+03	1.7472+03
20	1.7076+03	1.7049+03	1.7031+03	1.7058+03	1.7111+03	1.6954+03
21	1.5788+03	1.5782+03	1.5778+03	1.5756+03	1.6056+03	1.6032+03
22	1.5937+03	1.5929+03	1.5921+03	1.5904+03	1.6207+03	1.6056+03
23	1.6980+03	1.6923+03	1.6976+03	1.6968+03	1.7251+03	1.7023+03
24	1.7035+03	1.6988+03	1.6971+03	1.6973+03	1.7136+03	1.6973+03
25	1.7468+03	1.7447+03	1.7354+03	1.7360+03	1.7484+03	1.7251+03
26	1.7410+03	1.7360+03	1.7356+03	1.7353+03	1.7589+03	1.7399+03
27	1.7471+03	1.7371+03	1.7453+03	1.7449+03	1.7792+03	1.7627+03
28	1.6356+03	1.6284+03	1.6373+03	1.6372+03	1.6597+03	1.6570+03
29	1.6049+03	1.6007+03	1.6124+03	1.6135+03	1.6274+03	1.6225+03
30	1.5742+03	1.5725+03	1.5777+03	1.5780+03	1.5898+03	1.5866+03
31	1.5341+03	1.5350+03	1.5369+03	1.5363+03	1.5495+03	1.5509+03
32	1.5107+03	1.5134+03	1.5113+03	1.5099+03	1.5212+03	1.5234+03
33	1.4537+03	1.4589+03	1.4535+03	1.4523+03	1.4659+03	1.4766+03
34	1.3936+03	1.4045+03	1.3781+03	1.3763+03	1.3830+03	1.3953+03
35	1.3363+03	1.3492+03	1.3183+03	1.3164+03	1.3205+03	1.3369+03
36	1.2923+03	1.3059+03	1.2794+03	1.2768+03	1.2806+03	1.2924+03
37	1.2248+03	1.2374+03	1.2108+03	1.2075+03	1.2115+03	1.2345+03
38	1.1337+03	1.1432+03	1.1196+03	1.1161+03	1.1206+03	1.1493+03
39	1.0241+03	1.0340+03	1.0096+03	1.0062+03	1.0120+03	1.0489+03

## 300KW TRANSIENT DATA

	640	799	649	652	655	658
	BP 6	BP 7	BP 8	BW 1	BW 2	BW 3
1	1.6577+03	1.6621+03	1.6627+03	1.7075+03	1.7083+03	1.7057+03
2	1.6831+03	1.6915+03	1.6925+03	1.7389+03	1.7392+03	1.7376+03
3	1.7122+03	1.7155+03	1.7153+03	1.7650+03	1.7660+03	1.7627+03
4	1.9188+02	1.7084+03	3.2000+01	1.6102+03	1.7290+03	1.7342+03
5	1.6494+03	1.6490+03	1.6489+03	1.6897+03	1.6902+03	1.6891+03
6	1.6877+03	1.6853+03	1.6873+03	1.7162+03	1.7160+03	1.7165+03
7	1.7492+03	1.7781+03	1.7826+03	1.8007+03	1.8014+03	1.8011+03
8	1.7994+03	1.8270+03	1.8313+03	1.8510+03	1.8517+03	1.8510+03
9	1.7738+03	1.7979+03	1.8007+03	1.8287+03	1.8306+03	1.8265+03
10	1.7171+03	1.7420+03	1.7422+03	1.7968+03	1.7981+03	1.7936+03
11	1.7111+03	1.7357+03	1.7363+03	1.7860+03	1.7870+03	1.7833+03
12	1.7364+03	1.7556+03	1.7564+03	1.8059+03	1.8067+03	1.8034+03
13	1.7446+03	1.7501+03	1.7503+03	1.7980+03	1.7990+03	1.7957+03
14	1.7659+03	1.7685+03	1.7706+03	1.8139+03	1.8141+03	1.8116+03
15	1.7949+03	1.7945+03	1.7962+03	1.8343+03	1.8351+03	1.8331+03
16	1.7604+03	1.7599+03	1.7630+03	1.7973+03	1.7967+03	1.7953+03
17	1.6913+03	1.7042+03	1.7058+03	1.7408+03	1.7410+03	1.7394+03
18	1.6721+03	1.6819+03	1.6825+03	1.7183+03	1.7177+03	1.7162+03
19	1.7522+03	1.7667+03	1.7678+03	1.7948+03	1.7960+03	1.7937+03
20	1.6972+03	1.7077+03	1.7089+03	1.7371+03	1.7383+03	1.7360+03
21	1.5860+03	1.5894+03	1.5881+03	1.6399+03	1.6398+03	1.6370+03
22	1.6018+03	1.6051+03	1.6028+03	1.6539+03	1.6544+03	1.6520+03
23	1.6939+03	1.7110+03	1.7118+03	1.7627+03	1.7624+03	1.7588+03
24	1.6933+03	1.7059+03	1.7069+03	1.7471+03	1.7471+03	1.7447+03
25	1.7394+03	1.7430+03	1.7443+03	1.7822+03	1.7824+03	1.7802+03
26	1.7307+03	1.7473+03	1.7472+03	1.7946+03	1.7955+03	1.7929+03
27	1.7333+03	1.7624+03	1.7602+03	1.8185+03	1.8196+03	1.8147+03
28	1.6310+03	1.6468+03	1.6465+03	1.6963+03	1.6970+03	1.6925+03
29	1.6156+03	1.6203+03	1.6206+03	1.6594+03	1.6602+03	1.6570+03
30	1.5890+03	1.5848+03	1.5833+03	1.6205+03	1.6205+03	1.6181+03
31	1.5521+03	1.5442+03	1.5423+03	1.5769+03	1.5772+03	1.5746+03
32	1.5304+03	1.5177+03	1.5148+03	1.5492+03	1.5492+03	1.5473+03
33	1.4785+03	1.4608+03	1.4566+03	1.4930+03	1.4938+03	1.4912+03
34	1.4140+03	1.3807+03	1.3764+03	1.4098+03	1.4092+03	1.4082+03
35	1.3526+03	1.3193+03	1.3143+03	1.3432+03	1.3424+03	1.3426+03
36	1.3157+03	1.2787+03	1.2751+03	1.3012+03	1.3005+03	1.3004+03
37	1.2442+03	1.2092+03	1.2051+03	1.2302+03	1.2288+03	1.2290+03
38	1.1461+03	1.1176+03	1.1118+03	1.1383+03	1.1371+03	1.1369+03
39	1.0383+03	1.0080+03	1.0013+03	1.0293+03	1.0278+03	1.0271+03

# 300KW TRANSIENT DATA

	661	664	667	670	673	676
	BW 4	BW 5	BW 6	BW 7	BW 8	BW 9
1	1.7056+03	1.7046+03	1.7052+03	1.7122+03	1.7114+03	1.7113+03
2	1.7368+03	1.7359+03	1.7362+03	1.7432+03	1.7419+03	1.7415+03
3	1.7620+03	1.7587+03	1.7600+03	1.7659+03	1.7656+03	1.7655+03
4	1.6897+03	1.7349+03	1.7357+03	1.7422+03	1.7431+03	1.7417+03
5	1.6892+03	1.6849+03	1.6857+03	1.6924+03	1.6911+03	1.6913+03
6	1.7165+03	1.7133+03	1.7137+03	1.7201+03	1.7198+03	1.7198+03
7	1.8011+03	1.8008+03	1.8012+03	1.8083+03	1.8081+03	1.8072+03
8	1.8512+03	1.8500+03	1.8503+03	1.8574+03	1.8576+03	1.8571+03
9	1.8258+03	1.8252+03	1.8258+03	1.8328+03	1.8326+03	1.8331+03
10	1.7925+03	1.7921+03	1.7932+03	1.8002+03	1.7992+03	1.7987+03
11	1.7835+03	1.7830+03	1.7838+03	1.7904+03	1.7898+03	1.7897+03
12	1.8037+03	1.8029+03	1.8035+03	1.8096+03	1.8093+03	1.8085+03
13	1.7959+03	1.7941+03	1.7945+03	1.8016+03	1.8006+03	1.8001+03
14	1.8117+03	1.8100+03	1.8103+03	1.8172+03	1.8167+03	1.8161+03
15	1.8335+03	1.8303+03	1.8306+03	1.8373+03	1.8368+03	1.8367+03
16	1.7959+03	1.7947+03	1.7948+03	1.8014+03	1.8009+03	1.8000+03
17	1.7386+03	1.7370+03	1.7377+03	1.7445+03	1.7437+03	1.7436+03
18	1.7159+03	1.7139+03	1.7147+03	1.7209+03	1.7204+03	1.7205+03
19	1.7929+03	1.7907+03	1.7913+03	1.7978+03	1.7980+03	1.7980+03
20	1.7355+03	1.7326+03	1.7334+03	1.7409+03	1.7409+03	1.7412+03
21	1.6367+03	1.6332+03	1.6340+03	1.6408+03	1.6400+03	1.6401+03
22	1.6513+03	1.6486+03	1.6492+03	1.6570+03	1.6560+03	1.6555+03
23	1.7578+03	1.7578+03	1.7593+03	1.7659+03	1.7647+03	1.7642+03
24	1.7449+03	1.7420+03	1.7426+03	1.7489+03	1.7488+03	1.7489+03
25	1.7803+03	1.7770+03	1.7778+03	1.7843+03	1.7837+03	1.7840+03
26	1.7908+03	1.7911+03	1.7916+03	1.7985+03	1.7980+03	1.7967+03
27	1.8134+03	1.8132+03	1.8145+03	1.8214+03	1.8209+03	1.8203+03
28	1.6906+03	1.6875+03	1.6888+03	1.6956+03	1.6950+03	1.6948+03
29	1.6549+03	1.6505+03	1.6523+03	1.6588+03	1.6583+03	1.6592+03
30	1.6158+03	1.6108+03	1.6118+03	1.6186+03	1.6184+03	1.6189+03
31	1.5733+03	1.5670+03	1.5680+03	1.5749+03	1.5746+03	1.5749+03
32	1.5463+03	1.5393+03	1.5399+03	1.5468+03	1.5465+03	1.5474+03
33	1.4900+03	1.4822+03	1.4827+03	1.4896+03	1.4900+03	1.4900+03
34	1.4077+03	1.3980+03	1.3985+03	1.4045+03	1.4047+03	1.4060+03
35	1.3414+03	1.3338+03	1.3340+03	1.3402+03	1.3399+03	1.3404+03
36	1.3010+03	1.2946+03	1.2946+03	1.3011+03	1.3006+03	1.3009+03
37	1.2293+03	1.2236+03	1.2236+03	1.2298+03	1.2295+03	1.2298+03
38	1.1363+03	1.1305+03	1.1305+03	1.1370+03	1.1365+03	1.1365+03
39	1.0266+03	1.0204+03	1.0204+03	1.0265+03	1.0265+03	1.0267+03



# 300KW TRANSIENT DATA

	679	682	688	691	694	697
	BW 10	BW 11	BW 13	BW 14	BW 15	BW 16
1	1.7111+03	1.7092+03	1.7052+03	1.7003+03	1.7014+03	1.7027+03
2	1.7418+03	1.7405+03	1.7355+03	1.7312+03	1.7315+03	1.7331+03
3	1.7656+03	1.7647+03	1.7614+03	1.7584+03	1.7584+03	1.7594+03
4	1.7438+03	1.7422+03	8.4689+02	1.7214+03	1.7339+03	1.7198+03
5	1.6915+03	1.6903+03	1.6880+03	1.6856+03	1.6846+03	1.6854+03
6	1.7200+03	1.7198+03	1.7146+03	1.7140+03	1.7141+03	1.7148+03
7	1.8075+03	1.8073+03	1.8002+03	1.8004+03	1.8005+03	1.8010+03
8	1.8566+03	1.8566+03	1.8500+03	1.8503+03	1.8512+03	1.8507+03
9	1.8319+03	1.8308+03	1.8270+03	1.8251+03	1.8259+03	1.8280+03
10	1.7982+03	1.7967+03	1.7925+03	1.7870+03	1.7882+03	1.7894+03
11	1.7882+03	1.7879+03	1.7840+03	1.7781+03	1.7786+03	1.7799+03
12	1.8082+03	1.8072+03	1.8020+03	1.8000+03	1.7981+03	1.7992+03
13	1.8000+03	1.7987+03	1.7949+03	1.7915+03	1.7920+03	1.7927+03
14	1.8163+03	1.8150+03	1.8105+03	1.8070+03	1.8090+03	1.8087+03
15	1.8364+03	1.8354+03	1.8321+03	1.8301+03	1.8312+03	1.8312+03
16	1.8006+03	1.8004+03	1.7942+03	1.7929+03	1.7936+03	1.7943+03
17	1.7431+03	1.7426+03	1.7388+03	1.7366+03	1.7367+03	1.7377+03
18	1.7202+03	1.7194+03	1.7161+03	1.7140+03	1.7140+03	1.7147+03
19	1.7971+03	1.7968+03	1.7935+03	1.7932+03	1.7935+03	1.7940+03
20	1.7403+03	1.7390+03	1.7369+03	1.7350+03	1.7350+03	1.7363+03
21	1.6395+03	1.6385+03	1.6370+03	1.6330+03	1.6316+03	1.6343+03
22	1.6554+03	1.6536+03	1.6523+03	1.6486+03	1.6473+03	1.6492+03
23	1.7637+03	1.7626+03	1.7585+03	1.7536+03	1.7548+03	1.7548+03
24	1.7480+03	1.7478+03	1.7439+03	1.7406+03	1.7413+03	1.7424+03
25	1.7832+03	1.7827+03	1.7794+03	1.7769+03	1.7780+03	1.7783+03
26	1.7964+03	1.7953+03	1.7910+03	1.7861+03	1.7888+03	1.7886+03
27	1.8186+03	1.8176+03	1.8137+03	1.8076+03	1.8100+03	1.8097+03
28	1.6940+03	1.6923+03	1.6922+03	1.6871+03	1.6882+03	1.6890+03
29	1.6575+03	1.6562+03	1.6567+03	1.6520+03	1.6517+03	1.6534+03
30	1.6174+03	1.6168+03	1.6177+03	1.6145+03	1.6145+03	1.6155+03
31	1.5741+03	1.5733+03	1.5751+03	1.5726+03	1.5726+03	1.5733+03
32	1.5463+03	1.5455+03	1.5477+03	1.5458+03	1.5451+03	1.5461+03
33	1.4891+03	1.4886+03	1.4915+03	1.4900+03	1.4897+03	1.4900+03
34	1.4052+03	1.4042+03	1.4093+03	1.4085+03	1.4082+03	1.4068+03
35	1.3407+03	1.3399+03	1.3436+03	1.3419+03	1.3421+03	1.3414+03
36	1.3014+03	1.3006+03	1.3016+03	1.3007+03	1.3012+03	1.2999+03
37	1.2302+03	1.2295+03	1.2307+03	1.2291+03	1.2298+03	1.2284+03
38	1.1374+03	1.1365+03	1.1388+03	1.1371+03	1.1379+03	1.1363+03
39	1.0272+03	1.0261+03	1.0295+03	1.0269+03	1.0289+03	1.0261+03

## 300KW TRANSIENT DATA

	700	703	706	709	712	718
	BW 17	BW 18	BW 19	BW 20	BW 21	BW 23
1	1.6945+03	1.6971+03	1.6974+03	1.6880+03	1.6929+03	1.6956+03
2	1.7255+03	1.7261+03	1.7276+03	1.7190+03	1.7230+03	1.7270+03
3	1.7534+03	1.7516+03	1.7553+03	1.7467+03	1.7493+03	1.7519+03
4	1.7277+03	1.7291+03	1.7165+03	1.7193+03	1.7174+03	1.7665+03
5	1.6816+03	1.6810+03	1.6821+03	1.6763+03	1.6787+03	1.6818+03
6	1.7127+03	1.7108+03	1.7129+03	1.7095+03	1.7108+03	1.7152+03
7	1.7999+03	1.7974+03	1.8004+03	1.7982+03	1.7993+03	1.8064+03
8	1.8493+03	1.8467+03	1.8514+03	1.8478+03	1.8481+03	1.8560+03
9	1.8233+03	1.8217+03	1.8270+03	1.8205+03	1.8223+03	1.8298+03
10	1.7797+03	1.7816+03	1.7830+03	1.7701+03	1.7759+03	1.7806+03
11	1.7712+03	1.7739+03	1.7737+03	1.7635+03	1.7685+03	1.7731+03
12	1.7931+03	1.7919+03	1.7934+03	1.7854+03	1.7886+03	1.7927+03
13	1.7861+03	1.7849+03	1.7874+03	1.7797+03	1.7823+03	1.7856+03
14	1.8020+03	1.8020+03	1.8040+03	1.7961+03	1.7998+03	1.8039+03
15	1.8268+03	1.8250+03	1.8279+03	1.8223+03	1.8243+03	1.8273+03
16	1.7907+03	1.7887+03	1.7915+03	1.7855+03	1.7881+03	1.7931+03
17	1.7334+03	1.7323+03	1.7353+03	1.7294+03	1.7316+03	1.7359+03
18	1.7107+03	1.7101+03	1.7129+03	1.7075+03	1.7089+03	1.7136+03
19	1.7921+03	1.7898+03	1.7937+03	1.7904+03	1.7909+03	1.7950+03
20	1.7337+03	1.7320+03	1.7361+03	1.7312+03	1.7333+03	1.7377+03
21	1.6274+03	1.6261+03	1.6285+03	1.6205+03	1.6230+03	1.6257+03
22	1.6434+03	1.6426+03	1.6444+03	1.6354+03	1.6384+03	1.6402+03
23	1.7454+03	1.7477+03	1.7488+03	1.7381+03	1.7436+03	1.7473+03
24	1.7370+03	1.7365+03	1.7382+03	1.7304+03	1.7343+03	1.7378+03
25	1.7735+03	1.7728+03	1.7753+03	1.7692+03	1.7715+03	1.7748+03
26	1.7807+03	1.7823+03	1.7837+03	1.7739+03	1.7782+03	1.7823+03
27	1.7995+03	1.8012+03	1.8036+03	1.7911+03	1.7968+03	1.8020+03
28	1.6815+03	1.6822+03	1.6847+03	1.6745+03	1.6795+03	1.6805+03
29	1.6486+03	1.6480+03	1.6520+03	1.6457+03	1.6484+03	1.6494+03
30	1.6121+03	1.6113+03	1.6150+03	1.6098+03	1.6118+03	1.6121+03
31	1.5709+03	1.5700+03	1.5738+03	1.5688+03	1.5705+03	1.5701+03
32	1.5443+03	1.5435+03	1.5463+03	1.5424+03	1.5440+03	1.5430+03
33	1.4880+03	1.4874+03	1.4900+03	1.4857+03	1.4875+03	1.4855+03
34	1.4065+03	1.4058+03	1.4080+03	1.4047+03	1.4060+03	1.4027+03
35	1.3414+03	1.3410+03	1.3422+03	1.3397+03	1.3409+03	1.3391+03
36	1.3000+03	1.3005+03	1.3009+03	1.2987+03	1.3000+03	1.2999+03
37	1.2288+03	1.2290+03	1.2295+03	1.2276+03	1.2286+03	1.2297+03
38	1.1367+03	1.1374+03	1.1378+03	1.1349+03	1.1362+03	1.1361+03
39	1.0264+03	1.0282+03	1.0277+03	1.0252+03	1.0264+03	1.0261+03

## 300KW TRANSIENT DATA

	721	727	730	733	736	742
	BW 24	BW 26	BW 27	BW 28	BW 29	BW 31
1	1.6932+03	1.6934+03	1.6929+03	1.6902+03	1.6904+03	1.6858+03
2	1.7240+03	1.7237+03	1.7223+03	1.7218+03	1.7206+03	1.7154+03
3	1.7475+03	1.7473+03	1.7467+03	1.7461+03	1.7469+03	1.7421+03
4	1.7282+03	2.1558+02	1.7258+03	1.7244+03	1.7244+03	2.6090+02
5	1.6789+03	1.6776+03	1.6773+03	1.6770+03	1.6771+03	1.6741+03
6	1.7137+03	1.7141+03	1.7122+03	1.7135+03	1.7105+03	1.7075+03
7	1.8054+03	1.8061+03	1.8056+03	1.8059+03	1.7985+03	1.7958+03
8	1.8551+03	1.8549+03	1.8549+03	1.8546+03	1.8483+03	1.8448+03
9	1.8284+03	1.8287+03	1.8278+03	1.8261+03	1.8230+03	1.8179+03
10	1.7762+03	1.7756+03	1.7743+03	1.7723+03	1.7736+03	1.7663+03
11	1.7688+03	1.7679+03	1.7655+03	1.7668+03	1.7655+03	1.7605+03
12	1.7885+03	1.7893+03	1.7883+03	1.7860+03	1.7862+03	1.7807+03
13	1.7826+03	1.7815+03	1.7805+03	1.7794+03	1.7805+03	1.7759+03
14	1.8008+03	1.8001+03	1.7989+03	1.7987+03	1.7979+03	1.7933+03
15	1.8256+03	1.8245+03	1.8240+03	1.8228+03	1.8231+03	1.8193+03
16	1.7906+03	1.7909+03	1.7897+03	1.7900+03	1.7871+03	1.7822+03
17	1.7340+03	1.7339+03	1.7331+03	1.7323+03	1.7315+03	1.7272+03
18	1.7109+03	1.7111+03	1.7101+03	1.7096+03	1.7091+03	1.7045+03
19	1.7943+03	1.7949+03	1.7943+03	1.7935+03	1.7910+03	1.7876+03
20	1.7355+03	1.7363+03	1.7355+03	1.7341+03	1.7339+03	1.7304+03
21	1.6213+03	1.6186+03	1.6184+03	1.6194+03	1.6217+03	1.6171+03
22	1.6375+03	1.6354+03	1.6347+03	1.6333+03	1.6372+03	1.6320+03
23	1.7440+03	1.7420+03	1.7412+03	1.7393+03	1.7398+03	1.7360+03
24	1.7350+03	1.7340+03	1.7329+03	1.7339+03	1.7322+03	1.7287+03
25	1.7725+03	1.7726+03	1.7711+03	1.7709+03	1.7704+03	1.7665+03
26	1.7795+03	1.7791+03	1.7774+03	1.7772+03	1.7760+03	1.7708+03
27	1.7982+03	1.7973+03	1.7940+03	1.7956+03	1.7939+03	1.7875+03
28	1.6768+03	1.6756+03	1.6754+03	1.6748+03	1.6785+03	1.6726+03
29	1.6480+03	1.6483+03	1.6481+03	1.6468+03	1.6491+03	1.6449+03
30	1.6113+03	1.6113+03	1.6106+03	1.6098+03	2.2143+02	1.6093+03
31	1.5694+03	1.5688+03	1.5686+03	1.5681+03	1.5705+03	1.5689+03
32	1.5421+03	1.5416+03	1.5421+03	1.5411+03	1.5433+03	1.5420+03
33	1.4850+03	1.4837+03	1.4840+03	1.4839+03	1.4874+03	1.4860+03
34	1.4023+03	1.4018+03	1.4022+03	1.4018+03	1.4070+03	1.9731+02
35	1.3392+03	1.3385+03	1.3396+03	1.3391+03	1.3421+03	1.3416+03
36	1.2999+03	1.2991+03	1.2999+03	1.2999+03	1.3010+03	1.3009+03
37	1.2295+03	1.2288+03	1.2293+03	1.2293+03	1.2300+03	1.2300+03
38	1.1365+03	1.1358+03	1.1368+03	1.1367+03	1.1381+03	1.1378+03
39	1.0263+03	1.0258+03	1.0267+03	1.0267+03	1.0291+03	1.0287+03

# 300KW TRANSIENT DATA

	745	748	754	757	760	763
	BW 32	BW 33	BW 35	BW 36	BW 37	BW 38
1	1.6847+03	1.6794+03	1.6807+03	1.6867+03	1.6789+03	1.6821+03
2	1.7144+03	1.7092+03	1.7105+03	1.7174+03	1.7088+03	1.7110+03
3	1.7407+03	1.7374+03	1.7371+03	1.7402+03	1.7326+03	1.7348+03
4	1.7113+03	1.7090+03	4.2091+02	1.7127+03	1.7193+03	1.7113+03
5	1.6725+03	1.6701+03	1.6701+03	1.6736+03	1.6675+03	1.6698+03
6	1.7075+03	1.7052+03	1.7067+03	1.7116+03	1.7067+03	1.7081+03
7	1.7971+03	1.7957+03	1.7980+03	1.8056+03	1.8031+03	1.8039+03
8	1.8458+03	1.8455+03	1.8472+03	1.8549+03	1.8531+03	1.8535+03
9	1.8203+03	1.8159+03	1.8203+03	1.8266+03	1.8239+03	1.8253+03
10	1.7655+03	1.7567+03	1.7604+03	1.7669+03	1.7566+03	1.7589+03
11	1.7585+03	1.7517+03	1.7533+03	1.7608+03	1.7523+03	1.7531+03
12	1.7801+03	1.7734+03	1.7750+03	1.7809+03	1.7711+03	1.7751+03
13	1.7748+03	1.7694+03	1.7705+03	1.7758+03	1.7670+03	1.7701+03
14	1.7926+03	1.7875+03	1.7887+03	1.7948+03	1.7865+03	1.7891+03
15	1.8184+03	1.8157+03	1.8163+03	1.8211+03	1.8145+03	1.8176+03
16	1.7825+03	1.7787+03	1.7810+03	1.7867+03	1.7807+03	1.7829+03
17	1.7277+03	1.7239+03	1.7256+03	1.7304+03	1.7240+03	1.7266+03
18	1.7053+03	1.7017+03	1.7027+03	1.7074+03	1.7018+03	1.7035+03
19	1.7893+03	1.7879+03	1.7896+03	1.7933+03	1.7899+03	1.7913+03
20	1.7317+03	1.7290+03	1.7315+03	1.7337+03	1.7310+03	1.7325+03
21	1.6153+03	1.6104+03	1.6093+03	1.6142+03	1.6039+03	1.6073+03
22	1.6302+03	1.6240+03	1.6240+03	1.6288+03	1.6193+03	1.6228+03
23	1.7335+03	1.7268+03	1.7282+03	1.7359+03	1.7265+03	1.7292+03
24	1.7285+03	1.7241+03	1.7252+03	1.7312+03	1.7240+03	1.7256+03
25	1.7665+03	1.7633+03	1.7640+03	1.7690+03	1.7631+03	1.7652+03
26	1.7699+03	1.7642+03	1.7655+03	1.7736+03	1.7650+03	1.7669+03
27	1.7867+03	1.7783+03	1.7800+03	1.7871+03	1.7757+03	1.7787+03
28	1.6723+03	1.6659+03	1.6676+03	1.6709+03	1.6631+03	1.6650+03
29	2.2708+02	1.5664+03	1.6435+03	1.6449+03	1.6398+03	1.6412+03
30	1.6106+03	1.6075+03	1.6077+03	1.6087+03	1.6037+03	1.6056+03
31	1.5688+03	1.5665+03	1.5660+03	1.5667+03	1.5614+03	1.5632+03
32	1.5424+03	1.5407+03	1.5399+03	1.5401+03	1.5354+03	1.5368+03
33	1.4860+03	1.4839+03	1.4827+03	1.4819+03	1.4767+03	1.4789+03
34	1.4479+03	1.4058+03	1.4037+03	1.4018+03	1.3985+03	1.3998+03
35	1.3422+03	1.3419+03	1.3397+03	1.3391+03	1.3374+03	1.3380+03
36	1.3009+03	1.3007+03	1.2985+03	1.3003+03	1.2980+03	1.2989+03
37	1.2298+03	1.2302+03	1.2277+03	1.5879+02	1.4840+03	1.2293+03
38	1.1381+03	1.1376+03	1.1353+03	1.1368+03	1.1356+03	1.1368+03
39	1.0295+03	1.0282+03	1.0257+03	1.0261+03	1.0254+03	1.0267+03

## 300KW TRANSIENT DATA

	766	769	772	775	778	781
	BW 39	BW 40	BW 41	BW 42	BW 43	BW 44
1	1.6826+03	1.6810+03	1.6833+03	1.6792+03	1.6819+03	1.6741+03
2	1.7118+03	1.7096+03	1.7133+03	1.7091+03	1.7117+03	1.7034+03
3	1.7364+03	1.7331+03	1.7378+03	1.7332+03	1.7355+03	1.7302+03
4	1.7116+03	1.7182+03	1.7103+03	1.7132+03	1.7222+03	1.7157+03
5	1.6698+03	1.6683+03	1.6710+03	1.6678+03	1.6702+03	1.6650+03
6	1.7094+03	1.7079+03	1.7097+03	1.7073+03	1.7086+03	1.7015+03
7	1.8045+03	1.8054+03	1.8056+03	1.8037+03	1.8042+03	1.7938+03
8	1.8542+03	1.8553+03	1.8546+03	1.8529+03	1.8534+03	1.8427+03
9	1.8266+03	1.8267+03	1.8252+03	1.8227+03	1.8238+03	1.8131+03
10	1.7614+03	1.7562+03	1.7616+03	1.7572+03	1.7602+03	1.7507+03
11	1.7558+03	1.7507+03	1.7552+03	1.7525+03	1.7534+03	1.7454+03
12	1.7770+03	1.7732+03	1.7765+03	1.7711+03	1.7752+03	1.7670+03
13	1.7708+03	1.7676+03	1.7708+03	1.7667+03	1.7704+03	1.7628+03
14	1.7906+03	1.7876+03	1.7914+03	1.7864+03	1.7889+03	1.7816+03
15	1.8173+03	1.8162+03	1.8183+03	1.8148+03	1.8175+03	1.8107+03
16	1.7838+03	1.7822+03	1.7848+03	1.7810+03	1.7822+03	1.7734+03
17	1.7278+03	1.7258+03	1.7277+03	1.7237+03	1.7264+03	1.7190+03
18	1.7058+03	1.7026+03	1.7055+03	1.7010+03	1.7037+03	1.6971+03
19	1.7927+03	1.7918+03	1.7918+03	1.7886+03	1.7904+03	1.7849+03
20	1.7333+03	1.7321+03	1.7320+03	1.7290+03	1.7312+03	1.7255+03
21	1.6089+03	1.6030+03	1.6086+03	1.6037+03	1.6071+03	1.6040+03
22	1.6230+03	1.6190+03	1.6233+03	1.6186+03	1.6235+03	1.6175+03
23	1.7315+03	1.7254+03	1.7313+03	1.7281+03	1.7299+03	1.7209+03
24	1.7273+03	1.7243+03	1.7280+03	1.7240+03	1.7272+03	1.7200+03
25	1.7656+03	1.7642+03	1.7667+03	1.7634+03	1.7657+03	1.7591+03
26	1.7687+03	1.7650+03	1.7692+03	1.7651+03	1.7675+03	1.7586+03
27	1.7814+03	1.7753+03	1.7819+03	1.7781+03	1.7800+03	1.7712+03
28	1.6664+03	1.6636+03	1.6664+03	1.6624+03	1.6661+03	1.6607+03
29	1.6431+03	1.6404+03	1.6433+03	1.6399+03	1.6412+03	1.6383+03
30	1.6063+03	1.6040+03	1.6064+03	1.6035+03	1.6053+03	1.6033+03
31	1.5639+03	1.5619+03	1.5647+03	1.5614+03	1.5642+03	1.5627+03
32	1.5375+03	1.5354+03	1.5381+03	1.5355+03	1.5375+03	1.5368+03
33	1.4789+03	1.4771+03	1.4802+03	1.4772+03	1.4794+03	1.4797+03
34	1.3998+03	1.3993+03	1.4007+03	1.3995+03	1.4007+03	1.4037+03
35	1.3380+03	1.3379+03	1.3384+03	1.3379+03	1.3389+03	1.3402+03
36	1.2985+03	1.2987+03	1.2994+03	1.2987+03	1.2994+03	1.2993+03
37	1.2285+03	1.2293+03	1.2295+03	1.2288+03	1.2297+03	1.2293+03
38	1.1356+03	1.1368+03	1.1367+03	1.1356+03	1.1365+03	1.1378+03
39	1.0251+03	1.0269+03	1.0269+03	1.0252+03	1.0263+03	1.0289+03

# 300KW TRANSIENT DATA

	784	787	790	802	808	811
	BW 45	BW 46	BW 47	BW 50	BW 52	BW 53
1	1.6765+03	1.6746+03	1.6714+03	1.6725+03	1.6674+03	1.6681+03
2	1.7058+03	1.7046+03	1.7009+03	1.7012+03	1.6967+03	1.6969+03
3	1.7328+03	1.7304+03	1.7286+03	1.7288+03	1.7239+03	1.7242+03
4	1.6977+03	1.6994+03	1.7070+03	1.6970+03	1.9753+03	1.6953+03
5	1.6669+03	1.6656+03	1.6642+03	1.6635+03	1.6600+03	1.6605+03
6	1.7041+03	1.7033+03	1.7009+03	1.7012+03	1.6988+03	1.6998+03
7	1.7946+03	1.7960+03	1.7941+03	1.7921+03	1.7922+03	1.7922+03
8	1.8439+03	1.8455+03	1.8433+03	1.8411+03	1.8407+03	1.8413+03
9	1.8151+03	1.8186+03	1.8123+03	1.8121+03	1.8103+03	1.8117+03
10	1.7536+03	1.7528+03	1.7477+03	1.7473+03	1.7424+03	1.7420+03
11	1.7481+03	1.7469+03	1.7428+03	1.7432+03	1.7376+03	1.7382+03
12	1.7693+03	1.7682+03	1.7645+03	1.7642+03	1.7593+03	1.7598+03
13	1.7661+03	1.7641+03	1.7609+03	1.7609+03	1.7561+03	1.7570+03
14	1.7848+03	1.7832+03	1.7800+03	1.7797+03	1.7756+03	1.7770+03
15	1.8130+03	1.8119+03	1.8094+03	1.8086+03	1.8060+03	1.8069+03
16	1.7767+03	1.7761+03	1.7728+03	1.7723+03	1.7693+03	1.7706+03
17	1.7216+03	1.7215+03	1.7185+03	1.7178+03	1.7150+03	1.7160+03
18	1.6995+03	1.6992+03	1.6963+03	1.6960+03	1.6938+03	1.6938+03
19	1.7865+03	1.7877+03	1.7852+03	1.7831+03	1.7825+03	1.7830+03
20	1.7283+03	1.7294+03	1.7263+03	1.7253+03	1.7234+03	1.7248+03
21	1.6062+03	1.6035+03	1.6019+03	1.6015+03	1.5967+03	1.5967+03
22	1.6207+03	1.6177+03	1.6153+03	1.6153+03	1.6096+03	1.6098+03
23	1.7247+03	1.7214+03	1.7181+03	1.7190+03	1.7132+03	1.7145+03
24	1.7222+03	1.7209+03	1.7192+03	1.7184+03	1.7167+03	1.7164+03
25	1.7616+03	1.7602+03	1.7588+03	1.7575+03	1.7556+03	1.7563+03
26	1.7615+03	1.7600+03	1.7573+03	1.7557+03	1.7527+03	1.7533+03
27	1.7742+03	1.7729+03	1.7679+03	1.7670+03	1.7627+03	1.7615+03
28	1.6639+03	1.6631+03	1.6594+03	1.6601+03	1.6565+03	1.6567+03
29	1.6404+03	1.6401+03	1.6377+03	1.6367+03	1.6333+03	1.6327+03
30	1.6054+03	1.6046+03	1.6027+03	1.6024+03	1.5986+03	1.5983+03
31	1.5642+03	1.5635+03	1.5617+03	1.5609+03	1.5571+03	1.5567+03
32	1.5385+03	1.5368+03	1.5362+03	1.5357+03	1.5321+03	1.5318+03
33	1.4812+03	1.4797+03	1.4787+03	1.4784+03	1.4746+03	1.4739+03
34	1.4038+03	1.4030+03	1.4035+03	1.4033+03	1.4015+03	1.4012+03
35	1.3410+03	1.3395+03	1.3405+03	1.3405+03	1.3394+03	1.3395+03
36	1.2997+03	1.2980+03	1.3000+03	1.2995+03	1.2980+03	1.2985+03
37	1.2288+03	1.2281+03	1.2298+03	1.2295+03	1.2293+03	1.2291+03
38	1.1374+03	1.1363+03	1.1379+03	1.1374+03	1.1371+03	1.1378+03
39	1.0278+03	1.0261+03	1.0287+03	1.0284+03	1.0277+03	1.0280+03

## 300KW TRANSIENT DATA

	814	817	820	823	829	643
	BW 54	BW 55	BW 56	BW 57	BW 59	BW 60
1	1.6674+03	1.6723+03	1.6693+03	1.6687+03	1.6682+03	1.6730+03
2	1.6964+03	1.7014+03	1.6992+03	1.6974+03	1.6966+03	1.7014+03
3	1.7236+03	1.7251+03	1.7229+03	1.7210+03	1.7207+03	1.7258+03
4	1.6878+03	1.6966+03	1.7039+03	1.7031+03	3.2000+01	1.6956+03
5	1.6603+03	1.6637+03	1.6610+03	1.6610+03	1.6592+03	1.6627+03
6	1.7001+03	1.7039+03	1.7023+03	1.7014+03	1.7017+03	1.7044+03
7	1.7944+03	1.8000+03	1.7987+03	1.7973+03	1.7984+03	1.8023+03
8	1.8436+03	1.8500+03	1.8498+03	1.8481+03	1.8483+03	1.8522+03
9	1.8150+03	1.8202+03	1.8205+03	1.8189+03	1.8192+03	1.8227+03
10	1.7417+03	1.7471+03	1.7434+03	1.7422+03	1.7417+03	1.7480+03
11	1.7378+03	1.7420+03	1.7398+03	1.7374+03	1.7374+03	1.7433+03
12	1.7594+03	1.7642+03	1.7594+03	1.7592+03	1.7586+03	1.7653+03
13	1.7562+03	1.7607+03	1.7565+03	1.7563+03	1.7557+03	1.7612+03
14	1.7764+03	1.7807+03	1.7783+03	1.7767+03	1.7763+03	1.7813+03
15	1.8074+03	1.8109+03	1.8091+03	1.8085+03	1.8065+03	1.8113+03
16	1.7718+03	1.7767+03	1.7742+03	1.7731+03	1.7732+03	1.7772+03
17	1.7164+03	1.7210+03	1.7179+03	1.7175+03	1.7171+03	1.7209+03
18	1.6939+03	1.6997+03	1.6955+03	1.6954+03	1.6949+03	1.6983+03
19	1.7854+03	1.7874+03	1.7856+03	1.7855+03	1.7844+03	1.7877+03
20	1.7259+03	1.7271+03	1.7269+03	1.7269+03	1.7256+03	1.7275+03
21	1.5942+03	1.5980+03	1.5930+03	1.5922+03	1.5920+03	1.5972+03
22	1.6076+03	1.6112+03	1.6068+03	1.6064+03	1.6052+03	1.6114+03
23	1.7126+03	1.7185+03	1.7158+03	1.7141+03	1.7136+03	1.7191+03
24	1.7164+03	1.7207+03	1.7191+03	1.7172+03	1.7163+03	1.7209+03
25	1.7563+03	1.7594+03	1.7587+03	1.7569+03	1.7566+03	1.7601+03
26	1.7530+03	1.7587+03	1.7563+03	1.7546+03	1.7540+03	1.7590+03
27	1.7619+03	1.7655+03	1.7638+03	1.7599+03	1.7592+03	1.7668+03
28	1.6556+03	1.6581+03	1.6544+03	1.6544+03	1.6533+03	1.6574+03
29	1.6320+03	1.6319+03	1.6288+03	1.6294+03	1.6288+03	1.6340+03
30	1.5973+03	1.5960+03	1.5934+03	1.5946+03	1.5931+03	1.5980+03
31	1.5557+03	1.5544+03	1.5508+03	1.5524+03	1.5511+03	1.5555+03
32	1.5303+03	1.5290+03	1.5252+03	1.5267+03	1.5245+03	1.5304+03
33	1.4728+03	1.4704+03	1.4668+03	1.4681+03	1.4664+03	1.4709+03
34	1.3998+03	1.3965+03	1.3953+03	1.3963+03	1.3941+03	1.3968+03
35	1.3383+03	1.3367+03	1.3358+03	1.3370+03	1.3352+03	1.3365+03
36	1.2969+03	1.2970+03	1.2968+03	1.2974+03	1.2953+03	1.2970+03
37	1.2274+03	1.2285+03	1.2283+03	1.2291+03	1.2267+03	1.2278+03
38	1.1351+03	1.1358+03	1.1358+03	1.1363+03	1.1342+03	1.1345+03
39	1.0250+03	1.0258+03	1.0252+03	1.0258+03	1.0238+03	1.0240+03

# 300KW TRANSIENT DATA

	646	398	832	838	841	845
	BW 61	BW 62	BW 63	BW 65	PFST	PFMT
1	1.6693+03	1.6679+03	1.6639+03	1.6631+03	1.6624+03	2.6627+02
2	1.6979+03	1.6965+03	1.6924+03	1.6921+03	1.6894+03	2.6649+02
3	1.7235+03	1.7202+03	1.7198+03	1.7190+03	2.1970+03	1.0398+03
4	1.7094+03	1.7157+03	1.7026+03	1.6961+03	1.9906+03	5.6032+02
5	1.6610+03	1.6593+03	1.6574+03	1.6570+03	1.6581+03	2.6024+02
6	1.7020+03	1.7012+03	1.6966+03	1.6974+03	1.7138+03	2.6222+02
7	1.7986+03	1.7975+03	1.7894+03	1.7901+03	1.7707+03	2.9467+02
8	1.8491+03	1.8483+03	1.8372+03	1.8405+03	1.8283+03	2.9926+02
9	1.8191+03	1.8176+03	1.8071+03	1.8112+03	1.7936+03	3.0264+02
10	1.7434+03	1.7407+03	1.7370+03	1.7368+03	1.7187+03	3.0313+02
11	1.7400+03	1.7363+03	1.7322+03	1.7323+03	1.7178+03	3.0264+02
12	1.7598+03	1.7592+03	1.7544+03	1.7542+03	1.7452+03	3.0115+02
13	1.7571+03	1.7560+03	1.7515+03	1.7521+03	1.7502+03	3.0159+02
14	1.7780+03	1.7761+03	1.7728+03	1.7728+03	1.7721+03	3.0137+02
15	1.8093+03	1.8076+03	1.8033+03	1.8043+03	1.8060+03	3.0220+02
16	1.7734+03	1.7723+03	1.7662+03	1.7684+03	1.7713+03	2.8744+02
17	1.7183+03	1.7179+03	1.7120+03	1.7136+03	1.7088+03	2.9356+02
18	1.6949+03	1.6951+03	1.6909+03	1.6914+03	1.6898+03	2.9278+02
19	1.7840+03	1.7836+03	1.7794+03	1.7825+03	1.7772+03	2.9223+02
20	1.7244+03	1.7236+03	1.7207+03	1.7223+03	1.7114+03	2.9103+02
21	1.5935+03	1.5923+03	1.5928+03	1.5893+03	1.5839+03	2.8533+02
22	1.6072+03	1.6070+03	1.6054+03	1.6025+03	1.5991+03	2.8022+02
23	1.7159+03	1.7136+03	1.7092+03	1.7079+03	1.6994+03	2.7893+02
24	1.7190+03	1.7172+03	1.7137+03	1.7130+03	1.7046+03	2.7921+02
25	1.7580+03	1.7571+03	1.7533+03	1.7531+03	1.7519+03	2.8229+02
26	1.7565+03	1.7548+03	1.7484+03	1.7492+03	1.7426+03	2.8409+02
27	1.7622+03	1.7602+03	1.7550+03	1.7580+03	1.7426+03	2.9648+02
28	1.6550+03	1.6537+03	1.6527+03	1.6511+03	1.6338+03	2.9513+02
29	1.6298+03	1.6272+03	1.6286+03	1.6264+03	1.6079+03	2.9172+02
30	1.5942+03	1.5923+03	1.5947+03	1.5915+03	1.5781+03	2.8846+02
31	1.5521+03	1.5500+03	1.5530+03	1.5501+03	1.5407+03	2.8528+02
32	1.5262+03	1.5252+03	1.5285+03	1.9058+03	1.5198+03	2.8317+02
33	1.4679+03	1.4666+03	1.4706+03	1.4675+03	1.4639+03	2.7861+02
34	1.3951+03	1.3956+03	1.4002+03	1.3976+03	1.4100+03	2.7036+02
35	1.3358+03	1.3367+03	1.3395+03	1.3375+03	1.3536+03	2.6116+02
36	1.2970+03	1.2975+03	1.2983+03	1.2951+03	1.9498+02	8.5136+02
37	1.2281+03	1.2293+03	1.2296+03	1.2265+03	1.2448+03	2.4264+02
38	1.1352+03	1.1370+03	1.1383+03	1.1344+03	1.1486+03	2.2630+02
39	1.0247+03	1.0267+03	1.0293+03	1.0239+03	1.0387+03	2.0417+02



## 300KW TRANSIENT DATA

	848	851	854	857	862	865
	PFLO-R	SIT/I	SIT	SIT	SOT	SOT
1	6.1271+00	1.4549+03	1.4536+03	1.4535+03	1.5612+03	1.5625+03
2	6.0757+00	1.4866+03	1.4863+03	1.4863+03	1.5917+03	1.5934+03
3	6.5966-03	1.5420+03	1.5418+03	1.5423+03	1.6245+03	1.6260+03
4	1.1473-03	1.0663+02	1.5149+03	1.9753+03	1.5963+03	1.5141+03
5	6.2781+00	1.4649+03	1.4636+03	1.4641+03	1.5774+03	1.5781+03
6	1.1735+01	1.5213+03	1.5198+03	1.5207+03	1.6309+03	1.6322+03
7	1.1477+01	1.4496+03	1.4607+03	1.4613+03	1.5803+03	1.5816+03
8	1.1261+01	1.3381+03	1.3488+03	1.3493+03	1.3930+03	1.3940+03
9	1.1339+01	1.2251+03	1.2356+03	1.2356+03	1.3996+03	1.4018+03
10	6.2647+00	1.2228+03	1.2312+03	1.2300+03	1.5963+03	1.5981+03
11	6.2375+00	1.3333+03	1.3418+03	1.3391+03	1.6120+03	1.6135+03
12	6.1528+00	1.5221+03	1.5285+03	1.5285+03	1.6467+03	1.6485+03
13	6.3560+00	1.5625+03	1.5618+03	1.5624+03	1.6318+03	1.6334+03
14	6.3161+00	1.6097+03	1.6103+03	1.6091+03	1.6729+03	1.6740+03
15	6.1945+00	1.6878+03	1.6874+03	1.6868+03	1.7355+03	1.7369+03
16	1.2002+01	1.6012+03	1.6010+03	1.6021+03	1.6426+03	1.5729+03
17	1.2296+01	1.4894+03	1.4941+03	1.4940+03	1.5739+03	1.5547+03
18	1.2352+01	1.4489+03	1.4522+03	1.4525+03	1.5465+03	1.4515+03
19	1.2035+01	1.3980+03	1.4016+03	1.4015+03	1.4095+03	1.3958+03
20	6.1795+00	1.2168+03	1.2192+03	1.2187+03	1.2752+03	1.2742+03
21	6.3359+00	1.1643+03	1.1647+03	1.1623+03	1.4517+03	1.4109+03
22	6.3161+00	1.2845+03	1.2839+03	1.2832+03	1.4656+03	1.3619+03
23	6.1725+00	1.4576+03	1.4627+03	1.4636+03	1.5603+03	1.5622+03
24	6.1560+00	1.5337+03	1.5378+03	1.5375+03	1.6212+03	1.6209+03
25	6.0223+00	1.6410+03	1.6421+03	1.6426+03	1.6838+03	1.6854+03
26	6.0420+00	1.5824+03	1.5860+03	1.5861+03	1.6302+03	1.6323+03
27	6.0556+00	1.5151+03	1.5253+03	1.5260+03	1.5903+03	1.5930+03
28	6.3191+00	1.2842+03	1.2894+03	1.2906+03	1.4696+03	1.4716+03
29	6.3386+00	1.1936+03	1.1972+03	1.1967+03	1.4309+03	1.4321+03
30	6.3971+00	1.2170+03	1.2172+03	1.2172+03	1.4109+03	1.4128+03
31	6.4128+00	1.1929+03	1.1903+03	1.1911+03	1.3900+03	1.3915+03
32	6.3833+00	1.1889+03	1.1844+03	1.1848+03	1.3701+03	1.3722+03
33	5.2040+00	1.1729+03	1.1656+03	1.1655+03	1.3464+03	1.3478+03
34	5.0468+00	1.3180+03	1.3064+03	1.3064+03	1.3526+03	1.3539+03
35	5.0365+00	1.3127+03	1.2992+03	1.2999+03	1.3196+03	1.3203+03
36	4.1891-03	1.2732+03	1.2592+03	1.2587+03	1.2781+03	1.2791+03
37	4.9648+00	1.2176+03	1.2043+03	1.2045+03	1.2251+03	1.2258+03
38	5.2579+00	1.0798+03	1.0701+03	1.0691+03	1.1369+03	1.1374+03
39	6.1701+00	1.0159+03	1.0047+03	1.0047+03	1.0255+03	1.0255+03

# 300KW TRANSIENT DATA

	598	868	871	877	880	883
	SOT-D	SOT/IS	VSCIT	VCSIT	VCSOT	VCSOT
1	1.5710+03	3.2000+01	1.5585+03	1.5595+03	1.5374+03	1.5367+03
2	1.6007+03	1.5888+03	1.5898+03	1.5906+03	1.5704+03	1.5701+03
3	1.6329+03	1.6076+03	1.6192+03	1.6208+03	1.6022+03	1.6019+03
4	1.6840+03	1.4927+03	1.1934+02	1.6037+03	1.5853+03	1.5838+03
5	1.5867+03	1.5623+03	1.5740+03	1.5744+03	1.5583+03	1.5577+03
6	1.6389+03	1.6186+03	1.6302+03	1.6320+03	1.6207+03	1.6194+03
7	1.5877+03	1.5547+03	1.5809+03	1.5817+03	1.5684+03	1.5678+03
8	1.4056+03	1.3651+03	1.3849+03	1.3858+03	1.3594+03	1.3582+03
9	1.4194+03	1.3758+03	1.3860+03	1.3887+03	1.3002+03	1.3011+03
10	1.6099+03	1.5755+03	1.5880+03	1.5900+03	1.5646+03	1.5651+03
11	1.6219+03	1.5899+03	1.6077+03	1.6084+03	1.5868+03	1.5868+03
12	1.6560+03	1.6247+03	1.6456+03	1.6467+03	1.6287+03	1.6287+03
13	1.6437+03	1.6325+03	1.6278+03	1.6293+03	1.5986+03	1.5991+03
14	1.6835+03	1.6741+03	1.6701+03	1.6720+03	1.6505+03	1.6500+03
15	1.7431+03	1.7373+03	1.7317+03	1.7329+03	1.7207+03	1.7207+03
16	1.6523+03	1.6437+03	1.6456+03	1.6464+03	1.6152+03	1.6151+03
17	1.5879+03	1.5696+03	1.5663+03	1.5680+03	1.5179+03	1.5181+03
18	1.5612+03	1.5430+03	1.5371+03	1.5389+03	1.4794+03	1.4785+03
19	1.4189+03	1.4047+03	1.4017+03	1.4030+03	1.3737+03	1.3725+03
20	1.2919+03	1.2706+03	1.2591+03	1.2602+03	1.1738+03	1.1734+03
21	1.4636+03	1.4513+03	1.4374+03	1.4394+03	1.3865+03	1.3865+03
22	1.4795+03	1.4650+03	1.4553+03	1.4566+03	1.4122+03	1.4121+03
23	1.5755+03	1.5538+03	1.5536+03	1.5548+03	1.5008+03	1.5013+03
24	1.6322+03	1.6157+03	1.6119+03	1.6122+03	1.5870+03	1.5870+03
25	1.6900+03	1.6827+03	1.6779+03	1.6782+03	1.6637+03	1.6643+03
26	1.6432+03	1.6244+03	1.6267+03	1.6252+03	1.5994+03	1.5984+03
27	1.6070+03	1.5725+03	1.5786+03	1.5771+03	1.5255+03	1.5253+03
28	1.4928+03	1.4569+03	1.4474+03	1.4461+03	1.2891+03	1.2912+03
29	1.4525+03	1.4217+03	1.4092+03	1.4097+03	1.2471+03	1.2486+03
30	1.4341+03	1.4058+03	1.3910+03	1.3917+03	1.2377+03	1.2392+03
31	1.4125+03	1.3884+03	1.3719+03	1.3731+03	1.2163+03	1.2178+03
32	1.3900+03	1.3703+03	1.3540+03	1.3550+03	1.2061+03	1.2075+03
33	1.3620+03	1.3489+03	1.3320+03	1.3335+03	1.1980+03	1.1980+03
34	1.3575+03	1.3651+03	1.3458+03	1.3474+03	1.3355+03	1.3345+03
35	1.3189+03	1.3354+03	1.3216+03	1.3227+03	1.4846+02	1.3167+03
36	1.2724+03	1.2943+03	1.2829+03	1.2843+03	1.2767+03	1.2776+03
37	1.2189+03	1.2374+03	1.2321+03	1.2320+03	1.2164+03	1.2141+03
38	1.1249+03	1.1460+03	1.1337+03	1.1340+03	1.0984+03	1.1018+03
39	1.0128+03	1.0349+03	1.0214+03	1.0221+03	1.0104+03	1.0110+03

## 300KW TRANSIENT DATA

	886	889	892	895	899	902
	VCSOT	HCSOT	HCSOT	SFST	SFMT	SFLO-R
1	1.5361+03	1.5315+03	1.5312+03	1.4575+03	1.9819+02	3.1357-01
2	1.5695+03	1.5649+03	1.5644+03	1.4868+03	1.9797+02	3.3005-01
3	1.6002+03	1.5934+03	1.5928+03	2.1970+03	2.9554+02	4.0814-01
4	1.6055+03	1.5757+03	1.5855+03	1.8060+03	4.8596+02	8.3973-02
5	1.5565+03	1.5567+03	1.5563+03	1.4735+03	1.8996+02	4.4713-01
6	1.6190+03	1.6185+03	1.6186+03	1.5309+03	1.9238+02	2.4520-01
7	1.5670+03	1.4756+03	1.4794+03	1.4524+03	2.1904+02	1.3903-01
8	1.3579+03	1.0956+03	1.0972+03	1.3042+03	2.1874+02	1.0700-01
9	1.2971+03	1.2939+03	1.2910+03	1.2178+03	2.1640+02	1.8706-01
10	1.5630+03	1.5641+03	1.5641+03	1.2629+03	2.1557+02	3.3951-01
11	1.5851+03	1.5825+03	1.5819+03	1.3870+03	2.1552+02	3.2403+00
12	1.6273+03	1.6208+03	1.6203+03	1.5288+03	2.1887+02	3.3756-01
13	1.8617+02	1.5929+03	1.5929+03	1.5570+03	2.2635+02	7.0929-01
14	1.6487+03	1.6462+03	1.6463+03	1.6058+03	2.2613+02	7.8982-01
15	1.7193+03	1.7180+03	1.7191+03	1.6828+03	2.2916+02	9.0455-01
16	1.6142+03	1.5951+03	1.5948+03	1.5850+03	2.1962+02	6.1767-01
17	1.5177+03	1.5090+03	1.5082+03	1.4835+03	2.1667+02	6.0574-01
18	1.4775+03	1.4761+03	1.4745+03	1.4449+03	2.1460+02	5.9299-01
19	1.3727+03	1.0544+03	1.0562+03	1.3610+03	2.0923+02	1.0158-01
20	1.1731+03	8.3539+02	8.3688+02	1.1757+03	2.0457+02	1.0911-01
21	1.3850+03	1.3811+03	1.3798+03	1.2068+03	1.9735+02	2.0675-01
22	1.4104+03	1.4059+03	1.4052+03	1.2964+03	1.9643+02	2.0102-01
23	1.5001+03	1.4931+03	1.4921+03	1.4537+03	2.0268+02	5.5752-01
24	1.5851+03	1.5834+03	1.5831+03	1.5327+03	2.0426+02	1.0527+00
25	1.6622+03	1.6629+03	1.6637+03	1.6326+03	2.0897+02	1.0981+00
26	1.5981+03	1.5961+03	1.5966+03	1.5717+03	2.1068+02	9.3631-01
27	1.5243+03	1.4704+03	1.4706+03	1.4938+03	2.1728+02	7.1938-01
28	1.2888+03	1.2513+03	1.2518+03	1.2650+03	2.1024+02	9.5906-01
29	1.2462+03	1.2275+03	1.2289+03	1.1855+03	2.0655+02	1.0501+00
30	1.2370+03	1.2089+03	1.2105+03	1.2021+03	2.0430+02	1.1108+00
31	1.2156+03	1.1884+03	1.1896+03	1.1776+03	2.0303+02	1.1437+00
32	1.2057+03	1.1741+03	1.1752+03	1.1736+03	2.0144+02	1.1006+00
33	1.1968+03	1.1746+03	1.1746+03	1.1606+03	1.9929+02	1.3063+00
34	1.3342+03	1.3335+03	1.3343+03	1.3088+03	1.9700+02	1.0440+00
35	1.3148+03	1.3104+03	1.2292+03	1.2979+03	1.9484+02	9.4363-01
36	1.2757+03	1.2709+03	1.2723+03	1.2564+03	1.9190+02	9.7468-01
37	1.2138+03	1.2172+03	1.2179+03	1.2010+03	1.8692+02	1.9426-01
38	1.1013+03	1.0830+03	1.0846+03	1.0712+03	1.7617+02	1.3348-01
39	1.0104+03	1.0065+03	1.0072+03	1.0013+03	1.6293+02	4.8210-01

## 300KW TRANSIENT DATA

	906	909	912	915	916	917
	PGTC	PGTC	PGTC	PGTC	SPIP	SPOP
1	6.0083+02	7.1891+02	7.4999+02	3.8323+02	3.3360+01	6.1320+01
2	6.0609+02	7.1912+02	7.5785+02	3.8785+02	4.2540+01	6.9240+01
3	2.1970+03	2.1970+03	2.1970+03	2.1970+03	9.9796-01	1.3285+02
4	9.2848+02	1.0503+03	1.1006+03	6.8146+02	1.8000+00	4.8360+01
5	6.2926+02	7.5348+02	7.9186+02	3.8028+02	3.9780+01	6.4380+01
6	6.2989+02	7.5075+02	7.9081+02	3.8710+02	6.7380+01	8.2440+01
7	6.5432+02	7.7056+02	8.0828+02	4.2139+02	3.7800+01	5.5320+01
8	6.4791+02	7.6938+02	8.1639+02	4.0202+02	-2.0400+00	7.5600+00
9	6.3728+02	7.7100+02	8.4764+02	3.9308+02	-6.4800+00	3.3780+01
10	6.2976+02	7.5741+02	8.3153+02	4.0193+02	4.1520+01	7.5960+01
11	6.2672+02	7.5184+02	8.2356+02	4.0672+02	4.6620+01	-2.3500+01
12	6.2567+02	7.4579+02	8.0349+02	4.2120+02	5.9940+01	8.8020+01
13	6.4425+02	7.7303+02	8.1273+02	4.2488+02	5.1780+01	9.5220+01
14	6.4656+02	7.7545+02	8.1588+02	4.2189+02	7.0620+01	1.0812+02
15	6.5740+02	7.8476+02	8.3060+02	4.2461+02	1.0194+02	1.3080+02
16	6.8965+02	7.8741+02	8.7274+02	4.0246+02	5.5140+01	9.9780+01
17	6.5195+02	7.5939+02	8.2691+02	4.2488+02	2.8200+01	7.8180+01
18	6.4438+02	7.5348+02	8.1790+02	4.1858+02	1.9500+01	7.1760+01
19	6.2439+02	7.3576+02	7.8800+02	4.4719+02	-1.8000-01	2.4060+01
20	6.1225+02	7.3172+02	8.1294+02	4.1131+02	-1.5300+01	4.3200+00
21	5.9122+02	7.0775+02	7.8170+02	4.2309+02	3.1800+00	3.7980+01
22	5.8355+02	6.9979+02	7.5209+02	4.1798+02	6.9000+00	4.0560+01
23	5.9546+02	7.3412+02	7.5008+02	4.3316+02	2.2680+01	7.2840+01
24	6.0159+02	7.3815+02	7.5710+02	4.2525+02	4.7400+01	9.0180+01
25	6.1841+02	7.4684+02	7.7721+02	4.3109+02	7.6380+01	1.1124+02
26	6.3308+02	7.5478+02	7.9988+02	4.5172+02	5.1360+01	9.8400+01
27	6.4948+02	7.4386+02	4.8604+02	4.7680+02	2.8020+01	8.9160+01
28	6.3098+02	7.1866+02	7.1698+02	7.1572+02	-8.1600+00	6.1200+01
29	6.2215+02	7.1167+02	3.6018+02	5.8003+02	-1.2420+01	5.6760+01
30	6.1330+02	7.0282+02	6.8847+02	6.8889+02	-1.3140+01	4.7400+01
31	6.0631+02	6.9715+02	7.3361+02	7.3361+02	-1.4580+01	4.0440+01
32	6.0016+02	6.9204+02	7.2286+02	7.2286+02	-1.4940+01	3.6000+01
33	5.9180+02	6.8578+02	5.3405+02	5.3405+02	-1.5300+01	2.9220+01
34	5.8192+02	6.8192+02	3.2352+02	3.2398+02	-3.7200+00	2.4240+01
35	5.7932+02	6.8784+02	4.0452+02	4.0276+02	-5.5800+00	1.5060+01
36	5.7506+02	6.9218+02	3.5866+02	3.5544+02	-9.6600+00	1.0680+01
37	5.6744+02	6.9078+02	3.0308+02	2.9824+02	-1.3080+01	-1.9200+00
38	5.0650+02	6.7167+02	3.1430+02	3.1254+02	-1.5300+01	-4.7400+00
39	4.4741+02	6.4157+02	2.2529+02	2.2001+02	-1.5300+01	2.6040+01

## 300KW TRANSIENT DATA

	918	919	922	925	928	931
	BIP	BOP	VCAIT	VCAIT	VCAOT	VCAOT
1	5.3900+01	3.2920+01	3.9401+02	5.0633+02	6.6625+02	6.2325+02
2	6.2180+01	4.2065+01	4.0272+02	5.1724+02	6.7982+02	6.3514+02
3	1.2312+02	1.3243+02	2.1970+03	2.1970+03	2.1970+03	2.1970+03
4	6.9500+01	7.6165+01	4.4191+02	5.6599+02	7.1518+02	6.6475+02
5	5.6000+01	3.6020+01	4.0404+02	5.2516+02	6.8066+02	6.3472+02
6	7.6400+01	5.9580+01	4.0360+02	5.2868+02	6.8864+02	6.4480+02
7	4.8860+01	5.0900+01	4.8164+02	6.0184+02	7.2664+02	6.7944+02
8	5.7200+00	-2.2650+00	4.7293+02	5.8597+02	6.9301+02	6.5221+02
9	2.9360+01	6.0000-02	4.5573+02	5.6397+02	6.6405+02	6.2545+02
10	6.8840+01	3.8500+01	4.4257+02	5.4905+02	6.5045+02	6.1009+02
11	1.3096+02	4.0205+01	4.3804+02	5.4408+02	6.4944+02	6.0864+02
12	8.1800+01	4.8730+01	4.3443+02	5.3915+02	6.7302+02	6.3128+02
13	8.5400+01	4.2840+01	4.5309+02	5.6397+02	7.0837+02	6.6273+02
14	9.7760+01	5.9270+01	4.5089+02	5.6661+02	7.1660+02	6.7065+02
15	1.1942+02	8.6860+01	4.5964+02	5.8504+02	7.3546+02	6.8994+02
16	9.0800+01	5.0435+01	4.7210+02	6.1498+02	7.3265+02	1.7651+02
17	6.9200+01	2.4240+01	4.5436+02	5.6568+02	6.9952+02	6.5212+02
18	6.2600+01	1.6800+01	4.4702+02	5.5438+02	6.8923+02	6.4371+02
19	3.5600+00	5.9500+00	4.4508+02	5.5420+02	6.9332+02	6.5208+02
20	6.0200+00	-1.3735+01	4.3054+02	5.3572+02	6.5252+02	6.1656+02
21	3.1100+01	-2.3500+01	3.9533+02	4.9885+02	6.2325+02	5.8760+02
22	3.3020+01	7.5000+00	3.8217+02	4.8437+02	6.3191+02	5.9647+02
23	6.3860+01	2.0675+01	4.1168+02	5.1856+02	6.8318+02	6.4522+02
24	7.5560+01	3.5555+01	4.0716+02	5.2300+02	6.9556+02	6.5652+02
25	9.6380+01	5.8960+01	1.3112+02	1.2892+02	1.3265+03	1.1698+03
26	8.6000+01	4.7800+01	1.1334+02	1.1246+02	1.0287+03	8.1857+02
27	7.8440+01	5.1520+01	1.2192+02	1.2104+02	9.7812+02	8.1332+02
28	4.9760+01	1.8505+01	1.1867+02	1.1823+02	8.2471+02	6.7213+02
29	4.0640+01	-8.7000-01	1.1968+02	1.1924+02	8.6596+02	7.1442+02
30	3.3320+01	-1.0170+01	1.1818+02	1.1774+02	8.6886+02	7.2181+02
31	2.6960+01	-1.7300+01	1.1836+02	1.1748+02	8.7960+02	7.3080+02
32	2.0600+01	-2.3035+01	1.1862+02	1.1730+02	8.7634+02	7.3357+02
33	1.4240+01	-2.3500+01	1.1959+02	1.1827+02	9.0702+02	7.6999+02
34	9.8000+00	-2.3500+01	1.5321+02	1.4001+02	7.1277+02	6.4997+02
35	2.6000+00	-2.3500+01	1.8851+02	1.8377+02	6.7465+02	6.3795+02
36	-1.7200+00	-2.3500+01	2.1284+02	2.3294+02	6.6440+02	6.3808+02
37	-1.3000+01	-2.3500+01	2.3554+02	2.6913+02	6.5085+02	6.3144+02
38	-1.3000+01	-2.3500+01	2.3806+02	2.8091+02	6.1181+02	5.9978+02
39	-1.3000+01	-2.3500+01	2.1275+02	2.5443+02	5.6995+02	5.5807+02

# 300KW TRANSIENT DATA

	946	949	952	955	961	964
	VCAT	VCAT	VCAT	VCAT	VCWT	VCWT
1	1.4903+03	1.4969+03	1.4916+03	1.7289+03	1.5545+03	1.5555+03
2	1.5215+03	1.5294+03	1.5228+03	1.7623+03	1.5865+03	1.5872+03
3	2.1970+03	2.1970+03	2.1970+03	2.1970+03	1.6184+03	1.6187+03
4	1.4330+03	1.5443+03	1.5601+03	1.5452+03	3.2000+01	1.5992+03
5	1.5048+03	1.5136+03	1.5056+03	1.7039+03	1.5720+03	1.5727+03
6	1.5813+03	1.5965+03	1.5826+03	1.8635+03	1.6320+03	1.6318+03
7	1.5426+03	1.5426+03	1.5453+03	1.7536+03	1.5820+03	1.5827+03
8	1.3801+03	1.3700+03	1.3818+03	1.5339+03	1.3790+03	1.3805+03
9	1.3169+03	1.3182+03	1.3165+03	1.5013+03	1.3617+03	1.3669+03
10	1.4393+03	1.4525+03	1.4367+03	1.7367+03	1.5802+03	1.5817+03
11	1.4801+03	1.4902+03	1.4792+03	1.7755+03	1.6006+03	1.6017+03
12	1.5636+03	1.5786+03	1.5654+03	1.8547+03	1.6435+03	1.6440+03
13	1.5603+03	1.5722+03	1.5607+03	1.8374+03	1.6199+03	1.6215+03
14	1.5994+03	1.6145+03	1.5998+03	1.8996+03	1.6680+03	1.6674+03
15	1.8226+02	1.9985+03	1.6740+03	1.9053+03	1.7329+03	1.7328+03
16	1.5749+03	1.6685+02	1.6059+03	1.8153+03	1.6371+03	1.6390+03
17	1.5022+03	1.5044+03	1.5008+03	1.7293+03	1.5492+03	1.5520+03
18	1.4711+03	1.4715+03	1.4675+03	1.6913+03	1.5152+03	1.5185+03
19	1.4137+03	1.4011+03	1.4159+03	1.5752+03	1.3963+03	1.3968+03
20	1.2544+03	1.2426+03	1.2536+03	1.3795+03	1.2353+03	1.2386+03
21	1.3476+03	1.3532+03	1.3454+03	1.5440+03	1.4207+03	1.4222+03
22	1.3805+03	1.3845+03	1.3796+03	1.6100+03	1.4431+03	1.4446+03
23	1.4740+03	1.4801+03	1.4731+03	1.7237+03	1.5353+03	1.5376+03
24	1.5242+03	1.5369+03	1.5237+03	1.8084+03	1.6059+03	1.6060+03
25	6.5912+02	1.2619+03	5.0272+02	1.3018+03	1.6511+03	1.6685+03
26	3.9154+02	8.4304+02	2.7880+02	1.4271+03	1.5659+03	1.5930+03
27	3.8296+02	7.1950+02	2.7397+02	5.0452+02	1.5061+03	1.5285+03
28	3.1215+02	5.9495+02	2.3365+02	1.4835+03	1.3331+03	1.3590+03
29	3.4422+02	6.4480+02	2.5980+02	1.5228+03	1.3115+03	1.3329+03
30	3.3944+02	6.5762+02	2.5390+02	1.7557+03	1.2925+03	1.3162+03
31	3.5158+02	6.6968+02	2.6244+02	1.5791+03	1.2794+03	1.3030+03
32	3.4588+02	6.8469+02	2.6006+02	2.1970+03	1.2616+03	1.2856+03
33	3.8195+02	7.2694+02	2.8487+02	1.5443+03	1.2498+03	1.2727+03
34	1.1476+03	1.1631+03	1.1046+03	1.3769+03	1.3387+03	1.3396+03
35	1.2508+03	1.2703+03	1.2429+03	1.4703+03	1.3234+03	1.3232+03
36	1.2417+03	1.2522+03	1.2409+03	1.4383+03	1.2863+03	1.2860+03
37	1.5409+02	1.4688+03	1.2070+03	1.3620+03	1.2264+03	1.2271+03
38	1.1002+03	1.0989+03	1.0989+03	1.1409+03	1.1196+03	1.1208+03
39	1.0066+03	1.0040+03	1.0057+03	8.5512+02	1.0176+03	1.0209+03

## 300KW TRANSIENT DATA

	970	973	976	979	982	985
	VCWT	VCWT	VCWT	VCWT	VCWD	VCWI
1	1.5560+03	1.5549+03	1.5483+03	1.5478+03	1.4936+03	1.4888+03
2	1.5878+03	1.5860+03	1.5810+03	1.5808+03	1.5246+03	1.5185+03
3	1.6184+03	1.6172+03	1.6132+03	1.6111+03	2.1970+03	2.1970+03
4	3.2000+01	1.6013+03	1.5998+03	1.5995+03	1.8483+03	1.8414+03
5	1.5725+03	1.5710+03	1.5657+03	1.5657+03	1.5008+03	1.4955+03
6	1.6309+03	1.6302+03	1.6262+03	1.6265+03	1.5811+03	1.5749+03
7	1.5815+03	1.5806+03	1.5778+03	1.5760+03	1.5594+03	1.5514+03
8	1.3819+03	1.3802+03	1.3750+03	1.3728+03	1.4051+03	1.3950+03
9	1.3752+03	1.3703+03	1.3534+03	1.3532+03	1.3185+03	1.3122+03
10	1.5826+03	1.5809+03	1.5731+03	1.8598+02	1.3966+03	1.3949+03
11	1.6019+03	1.6000+03	1.5934+03	1.5951+03	1.4564+03	1.4533+03
12	1.6442+03	1.6426+03	1.6372+03	1.6377+03	1.5640+03	1.5605+03
13	1.6238+03	1.8508+02	1.6135+03	1.6135+03	1.5653+03	1.5618+03
14	1.6690+03	1.6666+03	1.6610+03	1.6613+03	1.6017+03	1.5980+03
15	1.7318+03	1.7310+03	1.7278+03	1.7285+03	1.6758+03	1.6714+03
16	1.6416+03	1.6394+03	1.6316+03	1.6303+03	1.6221+03	1.6155+03
17	1.5571+03	1.5531+03	1.5414+03	1.5401+03	1.5099+03	1.5086+03
18	1.5256+03	1.5208+03	1.5067+03	1.5060+03	1.4775+03	1.4762+03
19	1.3986+03	1.3963+03	1.3913+03	1.3882+03	1.4462+03	1.4382+03
20	1.2454+03	1.2402+03	1.2282+03	1.2260+03	1.2785+03	1.2710+03
21	1.4269+03	1.4225+03	1.4120+03	1.4128+03	1.3408+03	1.3399+03
22	1.4480+03	1.4441+03	1.4353+03	1.4356+03	1.3802+03	1.3776+03
23	1.5445+03	1.5391+03	1.5273+03	1.5261+03	1.4783+03	1.4770+03
24	1.6075+03	1.6054+03	1.5984+03	1.5992+03	1.5160+03	1.5147+03
25	1.6641+03	1.6588+03	1.6348+03	1.6406+03	1.3161+03	1.3826+03
26	1.5875+03	1.5727+03	1.5422+03	1.5498+03	9.3906+02	1.0508+03
27	1.5314+03	1.5187+03	1.4855+03	1.4942+03	2.2344+02	9.5586+02
28	1.3740+03	1.3565+03	1.3062+03	1.3181+03	2.1464+02	7.4554+02
29	1.3486+03	1.3311+03	1.2851+03	1.2916+03	5.8613+02	7.2773+02
30	1.3326+03	1.3159+03	1.2673+03	1.2754+03	6.1990+02	7.6814+02
31	1.3190+03	1.3032+03	1.2545+03	1.2612+03	6.2787+02	7.7435+02
32	1.3020+03	1.2865+03	1.2371+03	1.2436+03	6.4316+02	7.8938+02
33	1.2883+03	1.2737+03	1.2270+03	1.2320+03	6.6097+02	8.0790+02
34	1.3389+03	1.3374+03	1.3306+03	1.3316+03	1.0512+03	1.1345+03
35	1.3206+03	1.3216+03	1.3175+03	1.3180+03	1.2457+03	1.2589+03
36	1.2839+03	1.2844+03	1.2812+03	1.2814+03	1.2454+03	1.2445+03
37	1.2278+03	1.2268+03	1.2211+03	1.2216+03	1.2166+03	1.2103+03
38	1.1215+03	1.1251+03	1.1136+03	1.1154+03	1.1097+03	1.1017+03
39	1.0207+03	1.0191+03	1.0157+03	1.0171+03	1.0152+03	1.0055+03

# 300KW TRANSIENT DATA

	988	991	1042	1048	994	997
	HCAOT	HCAOT	HCAOTU	HCAOTU	HCIAT	HCIAT
1	1.2993+03	1.1509+03	1.2756+03	1.2836+03	1.5101+02	1.2373+02
2	1.3321+03	1.1830+03	1.3058+03	1.3126+03	1.5312+02	1.2276+02
3	2.1970+03	2.1970+03	2.1970+03	2.1970+03	6.7113+02	3.2000+01
4	1.3355+03	1.1930+03	1.3130+03	1.3251+03	1.5523+02	1.7794+02
5	1.4260+03	1.3510+03	1.3338+03	1.3497+03	1.3860+02	1.2100+02
6	1.5175+03	1.4506+03	1.4278+03	1.4418+03	1.3068+02	1.2892+02
7	1.2483+03	1.0976+03	1.2593+03	1.2452+03	1.8692+02	1.3732+02
8	1.0357+03	9.4041+02	9.7527+02	9.6477+02	1.9053+02	1.3873+02
9	1.0269+03	8.2801+02	9.9370+02	9.8992+02	1.8785+02	1.4001+02
10	1.2844+03	1.1170+03	1.2431+03	1.2427+03	1.8319+02	1.4137+02
11	1.3088+03	1.1479+03	1.2822+03	1.2818+03	1.8264+02	1.4256+02
12	1.3526+03	1.1917+03	1.3329+03	1.3324+03	1.8340+02	1.4247+02
13	1.3308+03	1.1757+03	1.3148+03	1.3224+03	1.8873+02	1.3473+02
14	1.4569+03	1.3374+03	1.4117+03	1.4230+03	1.8062+02	1.4001+02
15	1.6081+03	1.5651+03	1.4969+03	1.5145+03	1.6328+02	1.5844+02
16	1.2581+03	1.0878+03	1.2664+03	1.2731+03	1.6895+02	4.3026+02
17	1.1610+03	1.0138+03	1.1652+03	1.1664+03	1.9352+02	1.1620+02
18	1.1246+03	9.1189+02	1.1292+03	1.1330+03	1.9146+02	1.1502+02
19	9.8984+02	8.8136+02	9.3986+02	9.3986+02	1.9392+02	1.1440+02
20	8.0404+02	7.9564+02	7.2828+02	7.3626+02	1.8952+02	1.1352+02
21	1.0504+03	8.2757+02	1.0475+03	1.0613+03	1.7726+02	1.1273+02
22	1.0785+03	9.0639+02	1.0728+03	1.0857+03	1.7521+02	1.1321+02
23	1.1521+03	1.0071+03	1.1492+03	1.1500+03	1.8264+02	1.1924+02
24	1.4546+03	1.3883+03	1.3453+03	1.3557+03	1.6672+02	1.3820+02
25	1.5408+03	1.5818+03	1.3527+03	1.3729+03	1.2848+02	1.7802+02
26	1.4667+03	1.3938+03	1.4166+03	1.4311+03	1.4766+02	1.4898+02
27	1.1892+03	9.9870+02	1.2044+03	1.2057+03	1.8184+02	1.3556+02
28	9.7291+02	7.7611+02	9.5191+02	9.6451+02	1.8083+02	1.3143+02
29	1.0050+03	8.1874+02	9.7304+02	9.9152+02	1.7340+02	1.3244+02
30	1.0132+03	8.5904+02	9.9177+02	1.0136+03	1.6438+02	1.3270+02
31	1.0146+03	8.9870+02	9.7724+02	1.0020+03	1.5884+02	1.3244+02
32	1.0187+03	8.4984+02	9.7455+02	1.0006+03	1.5294+02	1.3182+02
33	1.0448+03	9.6288+02	9.9102+02	1.0221+03	1.4423+02	1.3411+02
34	7.3718+02	1.2806+03	7.7105+02	7.7677+02	3.2000+01	7.4600+02
35	5.5451+02	1.2674+03	6.1115+02	6.1423+02	3.2000+01	9.9727+02
36	4.7544+02	1.2270+03	5.1856+02	5.1900+02	3.2000+01	9.9194+02
37	4.1637+02	1.1787+03	4.2879+02	4.2649+02	3.2000+01	9.6724+02
38	3.4293+02	1.0479+03	3.2775+02	3.2499+02	3.2000+01	8.6297+02
39	2.7115+02	9.7548+02	2.4840+02	2.5531+02	3.2000+01	7.9598+02



## 300KW TRANSIENT DATA

	1000	1003	1006	1009	1012	1015
	HCAT	HCAT	HCAT	HCAT	HCAT	HCAT
1	2.1733+02	2.3260+02	4.3063+02	4.0281+02	5.9726+02	5.6221+02
2	2.1988+02	2.3840+02	4.4464+02	4.1260+02	6.1832+02	5.7664+02
3	4.9581+02	7.6625+02	2.1970+03	2.1970+03	2.1970+03	2.1970+03
4	2.0571+02	2.2331+02	4.3223+02	4.0087+02	6.1207+02	5.6643+02
5	2.8588+02	3.0700+02	5.8280+02	5.5244+02	8.0572+02	7.2576+02
6	3.1712+02	3.4054+02	6.4648+02	6.1260+02	8.8652+02	7.9564+02
7	2.1772+02	2.3256+02	4.1725+02	3.8736+02	5.7360+02	5.4060+02
8	1.9845+02	2.0681+02	3.4436+02	3.2412+02	4.6633+02	4.4873+02
9	1.9973+02	2.0413+02	3.4017+02	3.1545+02	4.5661+02	4.3549+02
10	2.2793+02	2.3895+02	4.2792+02	3.9537+02	5.8723+02	5.5301+02
11	2.2868+02	2.4344+02	4.3804+02	4.0316+02	6.0012+02	5.6344+02
12	2.3496+02	2.5050+02	4.5643+02	4.1711+02	6.2395+02	5.8491+02
13	2.2569+02	2.4184+02	4.4297+02	4.0947+02	6.1269+02	5.7145+02
14	2.6957+02	2.8965+02	5.4857+02	5.0853+02	7.4558+02	6.8998+02
15	4.0851+02	4.3764+02	7.8560+02	7.3840+02	1.0273+03	9.1974+02
16	1.9366+02	2.0774+02	3.8750+02	3.5038+02	5.3414+02	5.0466+02
17	1.8184+02	1.9176+02	3.4657+02	3.1760+02	4.7812+02	4.5744+02
18	1.7777+02	1.8706+02	3.3520+02	3.0630+02	4.6506+02	4.4086+02
19	1.7130+02	1.7676+02	3.0612+02	2.8496+02	4.1858+02	4.0360+02
20	1.5708+02	1.5620+02	2.5980+02	2.4260+02	3.4468+02	3.3778+02
21	1.7306+02	1.7558+02	3.1193+02	2.8781+02	4.2649+02	4.0721+02
22	1.7521+02	1.7983+02	3.2458+02	2.9338+02	4.4477+02	4.2056+02
23	1.8474+02	1.9216+02	3.5204+02	3.1536+02	4.7852+02	4.5476+02
24	3.1943+02	3.3737+02	6.3560+02	5.9428+02	8.5764+02	7.6880+02
25	6.3136+02	6.8192+02	1.0656+03	9.5246+02	1.2878+03	1.0924+03
26	3.2380+02	3.4220+02	6.3287+02	6.0373+02	8.5784+02	7.7909+02
27	2.0144+02	2.1464+02	3.7240+02	3.5025+02	5.1596+02	4.9000+02
28	1.8125+02	1.8377+02	3.0115+02	2.8344+02	4.0523+02	3.9423+02
29	1.9612+02	1.9920+02	3.3732+02	3.2168+02	4.5344+02	4.3848+02
30	1.9462+02	1.9990+02	3.3760+02	3.2380+02	4.5326+02	4.3918+02
31	2.0008+02	2.0492+02	3.4974+02	3.3686+02	4.6884+02	4.5124+02
32	1.9902+02	2.0342+02	3.5048+02	3.3392+02	4.6822+02	4.4930+02
33	2.2331+02	2.2771+02	4.0307+02	3.8107+02	5.3255+02	4.9867+02
34	1.2909+03	1.2752+03	1.2580+03	1.3010+03	1.2697+03	1.3152+03
35	1.2903+03	1.2724+03	1.2539+03	1.2991+03	1.2600+03	1.3096+03
36	1.2522+03	1.2333+03	1.2153+03	1.2597+03	1.2199+03	1.2688+03
37	1.2099+03	1.1861+03	1.1715+03	1.2141+03	1.1761+03	1.9709+02
38	1.0785+03	1.0538+03	1.0403+03	1.0821+03	1.0445+03	1.0897+03
39	1.0024+03	9.8010+02	9.6246+02	1.0053+03	9.6750+02	1.0137+03

# 300KW TRANSIENT DATA

	1018	1021	1024	1027	1030	1033
	HCAI	HCAI	HCAI	HCAI	HCAI	HCAI
1	1.1190+03	7.1744+02	8.7485+02	8.8450+02	1.5585+02	9.8824+02
2	1.1311+03	7.3752+02	9.0038+02	9.1088+02	1.5532+02	1.0159+03
3	2.1970+03	2.1970+03	2.1970+03	2.1970+03	3.2000+01	2.1970+03
4	1.3551+03	7.3366+02	8.9526+02	9.0954+02	1.4731+02	1.0145+03
5	1.4374+03	8.8820+02	1.0828+03	1.0772+03	1.4520+02	1.1748+03
6	1.3665+03	9.6422+02	1.1710+03	1.1660+03	1.4960+02	1.2667+03
7	9.3066+02	6.9078+02	8.4116+02	8.5164+02	1.8310+02	9.5208+02
8	9.4797+02	5.6181+02	6.8373+02	6.8961+02	1.8235+02	7.8317+02
9	1.0365+03	5.4153+02	6.6625+02	6.6097+02	1.8020+02	7.4390+02
10	1.0471+03	7.0313+02	8.5292+02	8.6052+02	1.8109+02	9.6267+02
11	9.6632+02	7.1736+02	8.6992+02	8.8136+02	1.8138+02	9.8354+02
12	9.1668+02	7.4458+02	9.0408+02	9.1752+02	1.8172+02	1.0238+03
13	1.2401+03	7.3382+02	8.9206+02	9.0340+02	1.7810+02	1.0071+03
14	1.4824+03	8.6913+02	1.0530+03	1.0587+03	1.7474+02	1.1648+03
15	1.2330+03	1.0812+03	1.3050+03	1.2953+03	1.7386+02	1.3923+03
16	1.4530+03	6.4791+02	7.9245+02	8.0799+02	1.6853+02	9.1021+02
17	1.4419+03	5.8714+02	7.1782+02	7.2958+02	1.7386+02	8.2664+02
18	1.5221+03	5.6494+02	6.9438+02	6.9966+02	1.7189+02	7.9581+02
19	1.2350+03	5.1152+02	6.3304+02	6.3598+02	1.7088+02	7.2828+02
20	1.4770+03	4.1812+02	5.1504+02	5.1724+02	1.6584+02	5.9928+02
21	1.6185+03	5.1205+02	6.3732+02	6.3816+02	1.6157+02	7.2752+02
22	2.1899+03	5.3233+02	6.6849+02	6.6321+02	1.6205+02	7.5487+02
23	1.6285+03	5.8060+02	7.1778+02	7.1904+02	1.7130+02	8.1538+02
24	1.4731+03	9.2562+02	1.1328+03	1.1156+03	1.6504+02	1.2132+03
25	1.3548+03	1.1773+03	1.5136+03	1.3936+03	1.6060+02	1.4770+03
26	1.3167+03	9.4431+02	1.1389+03	1.1305+03	1.7197+02	1.2260+03
27	1.1295+03	6.2452+02	7.6308+02	7.7320+02	1.8520+02	8.6908+02
28	1.3964+03	4.8895+02	5.9663+02	5.9957+02	1.7915+02	6.7969+02
29	1.8387+03	5.4452+02	6.6748+02	6.6176+02	1.7298+02	7.4340+02
30	1.7877+03	5.4742+02	6.6774+02	6.6686+02	1.6777+02	7.4617+02
31	2.0352+03	5.5992+02	6.8486+02	6.7982+02	1.6368+02	7.5952+02
32	1.7833+03	5.6062+02	6.8175+02	6.7965+02	1.6086+02	7.5978+02
33	2.1970+03	6.1559+02	7.5256+02	7.4206+02	1.5831+02	8.2255+02
34	1.9364+03	1.3194+03	1.2887+03	1.3173+03	1.4837+02	1.3257+03
35	1.5543+03	1.3146+03	1.2775+03	1.3096+03	1.4683+02	1.3154+03
36	1.3922+03	1.2734+03	1.2367+03	1.2684+03	1.4388+02	1.2742+03
37	1.3958+03	1.2296+03	1.1927+03	1.2229+03	1.4089+02	1.2284+03
38	1.4894+03	1.0950+03	1.0618+03	1.0909+03	1.3517+02	1.0972+03
39	2.1970+03	1.0171+03	9.8304+02	1.0129+03	1.1783+02	1.0175+03

# 300KW TRANSIENT DATA

	1036	1039	1045	1051	1057	1060
	HCAT	HCAT	HCAT	HCAT	HCAT	HCAT
1	1.1064+03	1.0845+03	1.1757+03	1.1661+03	1.2422+03	1.2878+03
2	1.1374+03	1.1138+03	1.2094+03	1.1997+03	1.2747+03	1.3214+03
3	2.1970+03	2.1970+03	2.1970+03	2.1970+03	2.1970+03	2.1970+03
4	1.1407+03	1.1150+03	1.2139+03	1.2000+03	1.2758+03	1.3256+03
5	1.3084+03	1.2615+03	1.3598+03	1.3378+03	1.3965+03	1.4242+03
6	1.4049+03	1.3531+03	1.4559+03	1.4286+03	1.4885+03	1.5158+03
7	1.0800+03	1.0457+03	1.1534+03	1.1307+03	1.2107+03	1.2624+03
8	8.7269+02	8.8061+02	9.3243+02	9.5847+02	9.8829+02	9.9123+02
9	8.4248+02	8.2537+02	9.0676+02	8.9584+02	9.5884+02	1.0084+03
10	1.0825+03	1.0605+03	1.1564+03	1.1438+03	1.2192+03	1.2748+03
11	1.1068+03	1.0836+03	1.1808+03	1.1668+03	1.2430+03	1.3001+03
12	1.1508+03	1.1268+03	1.2270+03	1.2114+03	1.2894+03	1.3470+03
13	1.1367+03	1.1090+03	1.2128+03	1.1927+03	1.2722+03	1.3295+03
14	1.3015+03	1.2607+03	1.3662+03	1.3445+03	1.4147+03	1.4591+03
15	1.5321+03	1.4705+03	1.5752+03	1.5413+03	1.5952+03	1.6171+03
16	1.0379+03	1.0156+03	1.1220+03	1.0977+03	1.1823+03	1.2568+03
17	9.4326+02	9.2520+02	1.0247+03	1.0042+03	1.0824+03	1.1559+03
18	9.1021+02	8.9467+02	9.8959+02	9.6817+02	1.0459+03	1.1187+03
19	8.2132+02	8.3100+02	8.8400+02	9.1130+02	9.4406+02	9.5666+02
20	6.7688+02	6.7310+02	7.2996+02	7.3626+02	7.2912+02	7.3710+02
21	8.3461+02	8.2009+02	9.0844+02	8.9164+02	9.6178+02	1.0332+03
22	8.6609+02	8.4812+02	9.4167+02	9.2109+02	9.9291+02	1.0649+03
23	9.3482+02	9.1382+02	1.0138+03	9.9110+02	1.0683+03	1.1420+03
24	1.3573+03	1.2953+03	1.4041+03	1.3695+03	1.4278+03	1.4608+03
25	1.5984+03	1.5312+03	1.6080+03	1.5835+03	1.6153+03	1.5924+03
26	1.3689+03	1.3069+03	1.4161+03	1.3806+03	1.4395+03	1.3196+03
27	9.9030+02	9.6552+02	1.0688+03	1.0445+03	1.1219+03	1.1896+03
28	7.7215+02	7.6511+02	8.3879+02	8.3659+02	9.0067+02	9.2881+02
29	8.4480+02	8.1664+02	9.0374+02	8.8652+02	9.4826+02	9.9236+02
30	8.4504+02	8.2510+02	9.0441+02	8.9391+02	9.5313+02	9.9135+02
31	8.5840+02	8.3584+02	9.1424+02	9.0458+02	9.5918+02	9.8648+02
32	8.5584+02	8.4094+02	9.0945+02	9.1113+02	9.5019+02	9.7707+02
33	9.2424+02	8.9400+02	9.7086+02	9.6204+02	1.0082+03	1.0204+03
34	1.2831+03	1.3219+03	1.2831+03	1.3266+03	1.3215+03	1.2479+03
35	1.2724+03	1.3112+03	1.2712+03	1.3146+03	1.3070+03	1.2320+03
36	1.2296+03	1.2688+03	1.2270+03	1.2705+03	1.2641+03	1.1909+03
37	1.1844+03	1.2225+03	1.1826+03	1.2254+03	1.2183+03	1.1455+03
38	1.0560+03	1.0921+03	1.0500+03	1.0921+03	1.0837+03	1.0084+03
39	9.7506+02	1.0124+03	9.7044+02	1.0137+03	1.0116+03	9.4650+02

## 300KW TRANSIENT DATA

	1063	1066	1069	1078	1086	1095
	H CAT	HCWO	HCWI	P BARO	W AIR	Q AIR
1	1.2984+03	1.2206+03	8.1861+02	1.4540+01	2.6505-01	7.6983+01
2	1.3303+03	1.2558+03	8.5088+02	1.4540+01	2.6203-01	7.8175+01
3	2.1970+03	2.1970+03	2.1970+03	1.3213+01	1.8740-01	6.6487+01
4	1.3342+03	1.5417+03	1.1256+03	2.6034+01	9.9999-02	2.9413+01
5	1.4352+03	1.4070+03	1.1223+03	1.4540+01	1.3346-01	4.1260+01
6	1.5268+03	1.5085+03	1.2419+03	1.4431+01	1.3348-01	4.4668+01
7	1.2642+03	1.1936+03	7.6484+02	1.4540+01	3.1657-01	8.7720+01
8	9.8493+02	9.3373+02	5.8254+02	1.4540+01	3.3105-01	6.6660+01
9	1.0126+03	9.0588+02	5.4764+02	1.4540+01	3.0871-01	6.3977+01
10	1.2773+03	1.1896+03	7.7369+02	1.4540+01	0.	0.
11	1.3036+03	1.2204+03	7.9904+02	1.4540+01	0.	0.
12	1.3478+03	1.2716+03	8.4588+02	1.4540+01	2.9997-01	8.9605+01
13	1.3295+03	1.2583+03	8.3483+02	1.4540+01	2.8720-01	8.4773+01
14	1.4635+03	1.4239+03	1.0591+03	1.4540+01	2.0559-01	6.6305+01
15	1.6286+03	1.6299+03	1.4177+03	1.4540+01	1.1038-01	3.8269+01
16	1.2480+03	1.1632+03	7.1330+02	1.4540+01	3.9634-01	9.8553+01
17	1.1467+03	1.0536+03	6.1775+02	1.4540+01	3.9309-01	1.0047+02
18	1.1096+03	1.0129+03	5.8836+02	1.4540+01	3.9574-01	9.7630+01
19	9.4784+02	8.8476+02	5.1847+02	1.4540+01	3.8908-01	7.6255+01
20	7.1820+02	6.0917+02	3.9577+02	1.4540+01	4.1194-01	5.8948+01
21	1.0235+03	9.1710+02	5.1891+02	1.4540+01	4.0539-01	9.2551+01
22	1.0561+03	9.4771+02	5.4439+02	1.4540+01	3.6719-01	8.6322+01
23	1.1328+03	1.0335+03	6.0772+02	1.4540+01	3.9339-01	9.9213+01
24	1.4648+03	1.4487+03	1.1763+03	1.4540+01	1.2428-01	3.8041+01
25	1.6268+03	1.6343+03	1.5431+03	1.4540+01	4.5993-02	1.4224+01
26	2.0914+02	1.4643+03	1.2006+03	1.4540+01	1.3891-01	4.5450+01
27	1.1817+03	1.1042+03	6.7734+02	1.4540+01	3.6724-01	9.7390+01
28	9.4687+02	8.4844+02	3.9264+02	1.4540+01	3.7948-01	7.6015+01
29	9.9740+02	9.1747+02	5.6771+02	1.4540+01	2.6219-01	5.4378+01
30	9.9051+02	9.2079+02	5.7206+02	1.4540+01	2.6491-01	5.6638+01
31	9.9026+02	9.2629+02	5.9075+02	1.4540+01	2.2657-01	4.7822+01
32	9.6909+02	9.2184+02	5.9344+02	1.4540+01	1.9469-01	4.1141+01
33	1.0263+03	9.8068+02	6.7234+02	1.4540+01	0.	0.
34	1.3024+03	1.3321+03	1.3282+03	1.4540+01	0.	0.
35	1.2850+03	1.3122+03	1.3085+03	1.4540+01	0.	0.
36	1.2439+03	1.2652+03	1.2656+03	1.4540+01	0.	0.
37	1.1980+03	1.2204+03	1.2225+03	1.4540+01	0.	-0.
38	1.0626+03	1.0890+03	1.0866+03	1.4540+01	0.	-0.
39	9.9816+02	1.0042+03	1.0063+03	1.4540+01	0.	-0.

300KW TRANSIENT DATA

1099

Q PRI

1	9.5758+01
2	9.9241+01
3	1.0229-01
4	-6.5129-02
5	7.3160+01
6	7.5097+01
7	9.2623+01
8	6.0701+01
9	1.0374+02
10	1.4894+02
11	1.2811+02
12	1.1600+02
13	1.0667+02
14	9.4747+01
15	6.8532+01
16	1.2048+02
17	1.1561+02
18	1.1548+02
19	6.8053+01
20	5.3228+01
21	1.1495+02
22	1.1446+02
23	1.1937+02
24	7.6953+01
25	6.1418+01
26	9.8161+01
27	1.3200+02
28	1.1338+02
29	1.0097+02
30	8.6799+01
31	8.0646+01
32	7.1041+01
33	5.8892+01
34	2.0596+01
35	6.9335+00
36	6.4222-03
37	2.3183+00
38	1.6557+00
39	1.3293+00

# LIQUID-LIQUID DATA (TRANSIENT)

	401	402	609	612	614	617
	DATE	TIME	PIT	PIT	PIT/I	POT
1	6.2763+00	2.2050+03	1.8532+03	1.8535+03	1.8479+03	1.8188+03
2	6.2763+00	2.2350+03	1.8498+03	1.8511+03	1.8477+03	1.7969+03
3	6.2763+00	2.3150+03	1.8506+03	1.8521+03	1.8500+03	1.7716+03
4	6.2863+00	2.3000+01	1.8443+03	1.8452+03	1.8432+03	1.7347+03
5	6.1163+00	1.8550+03	8.4643+02	8.4699+02	8.4466+02	8.2504+02
6	6.1163+00	1.9320+03	8.6926+02	8.6870+02	8.6574+02	8.5044+02
7	6.1163+00	2.0020+03	9.5526+02	9.5562+02	9.5121+02	9.2150+02
8	6.1163+00	2.0320+03	1.0444+03	1.0445+03	1.0403+03	9.7561+02
9	6.1163+00	2.1000+03	1.1112+03	1.1107+03	1.1046+03	9.9182+02
10	6.1163+00	2.1310+03	1.1649+03	1.1655+03	1.1565+03	1.0058+03
11	6.1163+00	2.2010+03	1.1965+03	1.1970+03	1.1863+03	1.0256+03
12*	2.2436+03	1.3620+01	1.9753+03	1.9753+03	1.9753+03	1.9753+03
13	6.1163+00	2.3010+03	1.2322+03	1.2306+03	1.2185+03	1.1370+03
14	6.1163+00	2.3300+03	1.2527+03	1.2530+03	1.2405+03	1.2021+03
15	6.1163+00	2.3590+03	1.2818+03	1.2823+03	1.2703+03	1.2492+03
16	6.1263+00	2.9000+01	1.2917+03	1.2915+03	1.2796+03	1.2553+03
17	6.1263+00	1.0100+02	1.2870+03	1.2875+03	1.2768+03	1.2562+03
18	6.1263+00	1.5000+02	1.3048+03	1.3055+03	1.3009+03	1.2874+03
19	6.1263+00	2.3500+02	1.2905+03	1.2905+03	1.2905+03	1.2832+03

\*Data point No. 12 invalid due to program input error.

# LIQUID-LIQUID DATA

	620	622	625	628	631	637
	POT	POT/I	BP 1	BP 2	BP 3	BP 5
1	1.8186+03	1.8165+03	1.8055+03	1.8076+03	1.8189+03	1.7946+03
2	1.7963+03	1.7960+03	1.7891+03	1.7897+03	1.8100+03	1.7872+03
3	1.7714+03	1.7726+03	1.7694+03	1.7681+03	1.7989+03	1.7794+03
4	1.7351+03	1.7361+03	1.7406+03	1.7371+03	1.7727+03	1.7613+03
5	8.2411+02	8.2345+02	1.2436+03	8.1974+02	8.3257+02	8.5655+02
6	8.4933+02	8.4800+02	7.2903+02	8.4366+02	8.5426+02	8.8321+02
7	9.1930+02	9.1795+02	1.1282+03	9.1942+02	9.3443+02	9.4504+02
8	9.7561+02	9.7238+02	1.5026+03	9.8365+02	1.0138+03	1.0260+03
9	9.9164+02	9.8704+02	9.3959+02	1.0158+03	1.0666+03	1.0788+03
10	1.0056+03	9.9989+02	1.0199+03	1.0410+03	1.1092+03	1.1231+03
11	1.0251+03	1.0177+03	3.2000+01	1.0635+03	1.1363+03	1.1542+03
12	1.9753+03	1.9753+03	1.9753+03	1.9753+03	3.2000+01	1.9753+03
13	1.1354+03	1.1298+03	1.5668+03	1.1590+03	1.1976+03	1.2016+03
14	1.2011+03	1.1936+03	3.2000+01	1.2088+03	1.2284+03	1.2289+03
15	1.2480+03	1.2403+03	3.2000+01	1.2498+03	1.2594+03	1.2575+03
16	1.2551+03	1.2465+03	1.1688+03	1.2594+03	1.2690+03	1.2721+03
17	1.2554+03	1.2481+03	1.3000+03	1.2590+03	1.2660+03	1.2712+03
18	1.2877+03	1.2854+03	1.3430+03	1.2837+03	1.2851+03	1.2837+03
19	1.2792+03	1.2801+03	1.3474+03	1.2724+03	1.2710+03	1.2745+03

# LIQUID-LIQUID DATA

	640	799	649	652	655	658
	BP 6	BP 7	BP 8	BW 1	BW 2	BW 3
1	1.8063+03	1.8137+03	1.8164+03	1.8523+03	1.8527+03	1.8518+03
2	1.7956+03	1.8003+03	1.8022+03	1.8484+03	1.8492+03	1.8467+03
3	1.7840+03	1.7834+03	1.7847+03	1.8472+03	1.8487+03	1.8428+03
4	1.7524+03	1.7573+03	1.7553+03	1.8365+03	1.8385+03	1.8282+03
5	8.2644+02	8.2718+02	8.2030+02	8.4885+02	8.4736+02	8.4643+02
6	8.4477+02	8.4979+02	8.4217+02	8.7054+02	8.6907+02	8.6778+02
7	9.2747+02	9.2876+02	9.2327+02	9.5688+02	9.5507+02	9.5435+02
8	9.9270+02	1.0016+03	9.9451+02	1.0435+03	1.0433+03	1.0395+03
9	1.0264+03	1.0471+03	1.0373+03	1.1072+03	1.1073+03	1.1020+03
10	1.0562+03	1.0830+03	1.0726+03	1.1594+03	1.1609+03	1.1536+03
11	1.0798+03	1.1094+03	1.0984+03	1.1914+03	1.1930+03	1.1841+03
12	1.5246+03	1.9753+03	6.4279+02	1.9753+03	1.9753+03	1.9753+03
13	1.1625+03	1.1808+03	1.1789+03	1.2291+03	1.2299+03	1.2266+03
14	1.2027+03	1.2199+03	1.2169+03	1.2520+03	1.2521+03	1.2516+03
15	1.2370+03	1.2561+03	1.2549+03	1.2823+03	1.2831+03	1.2819+03
16	1.2468+03	1.2657+03	1.2643+03	1.2917+03	1.2920+03	1.2905+03
17	1.2485+03	1.2643+03	1.2628+03	1.2884+03	1.2885+03	1.2873+03
18	1.2832+03	1.2842+03	1.3047+03	1.3060+03	1.3060+03	1.3050+03
19	1.2752+03	1.2719+03	1.2703+03	1.2921+03	1.2931+03	1.2912+03



# LIQUID-LIQUID DATA

	661	664	667	670	673	676
	BW 4	BW 5	BW 6	BW 7	BW 8	BW 9
1	1.8504+03	1.8485+03	1.8491+03	1.8550+03	1.8545+03	1.8544+03
2	1.8461+03	1.8445+03	1.8450+03	1.8515+03	1.8501+03	1.8501+03
3	1.8408+03	1.8405+03	1.8419+03	1.8490+03	1.8482+03	1.8475+03
4	1.8275+03	1.8278+03	1.8305+03	1.8372+03	1.8370+03	1.8347+03
5	8.4866+02	8.4745+02	8.4801+02	8.5526+02	8.5452+02	8.5341+02
6	8.6834+02	8.6825+02	8.6825+02	8.7544+02	8.7525+02	8.7359+02
7	9.5453+02	9.5411+02	9.5483+02	9.6135+02	9.6135+02	9.6062+02
8	1.0399+03	1.0410+03	1.0421+03	1.0489+03	1.0482+03	1.0468+03
9	1.1013+03	1.1036+03	1.1052+03	1.1119+03	1.1115+03	1.1098+03
10	1.1517+03	1.1554+03	1.1567+03	1.1638+03	1.1635+03	1.1621+03
11	1.1830+03	1.1851+03	1.1873+03	1.1947+03	1.1943+03	1.1919+03
12	1.9753+03	1.9753+03	1.9753+03	1.9753+03	1.9753+03	1.9753+03
13	1.2256+03	1.2236+03	1.2250+03	1.2320+03	1.2316+03	1.2313+03
14	1.2506+03	1.2477+03	1.2479+03	1.2551+03	1.2544+03	1.2543+03
15	1.2821+03	1.2788+03	1.2799+03	1.2867+03	1.2860+03	1.2859+03
16	1.2910+03	1.2877+03	1.2889+03	1.2954+03	1.2954+03	1.2952+03
17	1.2879+03	1.2836+03	1.2844+03	1.2914+03	1.2909+03	1.2918+03
18	1.3060+03	1.3027+03	1.3029+03	1.3098+03	1.3091+03	1.3115+03
19	1.2921+03	1.2885+03	1.2887+03	1.2959+03	1.2995+03	1.2959+03

# LIQUID-LIQUID DATA

	679	682	688	691	694	697
	BW 10	BW 11	BW 13	BW 14	BW 15	BW 16
1	1.8547+03	1.8536+03	1.8495+03	1.8476+03	1.8488+03	1.8492+03
2	1.8500+03	1.8487+03	1.8450+03	1.8419+03	1.8428+03	1.8428+03
3	1.8453+03	1.8431+03	1.8418+03	1.8340+03	1.8363+03	1.8360+03
4	1.8300+03	1.8270+03	1.8276+03	1.8109+03	1.8201+03	1.8160+03
5	8.5415+02	8.5359+02	8.5071+02	8.4494+02	8.4848+02	8.4438+02
6	8.7433+02	8.7433+02	8.7183+02	8.6778+02	8.7054+02	8.6981+02
7	9.6081+02	9.6026+02	9.5652+02	9.5109+02	9.5345+02	9.5019+02
8	1.0469+03	1.0464+03	1.0420+03	1.0349+03	1.0367+03	1.0342+03
9	1.1085+03	1.1070+03	1.1036+03	1.0926+03	1.0958+03	1.0916+03
10	1.1591+03	1.1568+03	1.1550+03	1.1410+03	1.1445+03	1.1394+03
11	1.1887+03	1.1861+03	1.1855+03	1.1705+03	1.1751+03	1.1691+03
12	1.9753+03	1.9753+03	1.9753+03	1.9753+03	1.9753+03	1.9753+03
13	1.2306+03	1.2295+03	1.2266+03	1.2218+03	1.2225+03	1.2218+03
14	1.2555+03	1.2544+03	1.2508+03	1.2490+03	1.2503+03	1.2492+03
15	1.2872+03	1.2864+03	1.2828+03	1.2800+03	1.2809+03	1.2816+03
16	1.2957+03	1.2956+03	1.2908+03	1.2896+03	1.2888+03	1.2903+03
17	1.2913+03	1.2914+03	1.2882+03	1.2865+03	1.2858+03	1.2868+03
18	1.3093+03	1.3117+03	1.3077+03	1.3056+03	1.3038+03	1.3048+03
19	1.2961+03	1.2954+03	1.2922+03	1.2917+03	1.2898+03	1.2910+03

# LIQUID-LIQUID DATA

	700	703	706	709	712	718
	BW 17	BW 18	BW 19	BW 20	BW 21	BW 23
1	1.8437+03	1.8433+03	1.8468+03	1.8402+03	1.8426+03	1.8475+03
2	1.8363+03	1.8354+03	1.8370+03	1.8282+03	1.8324+03	1.8362+03
3	1.8249+03	1.8262+03	1.8252+03	1.8141+03	1.8201+03	1.8223+03
4	1.7965+03	1.8085+03	1.7985+03	1.7834+03	1.7976+03	1.7981+03
5	8.4364+02	8.4810+02	8.4364+02	8.4122+02	8.4290+02	8.4894+02
6	8.6650+02	8.6962+02	8.6576+02	8.6392+02	8.6650+02	8.7046+02
7	9.4874+02	9.5254+02	9.4802+02	9.4492+02	9.4747+02	9.5375+02
8	1.0288+03	1.0338+03	1.0281+03	1.0220+03	1.0265+03	1.0319+03
9	1.0831+03	1.0900+03	1.0797+03	1.0718+03	1.0783+03	1.0822+03
10	1.1269+03	1.1368+03	1.1239+03	1.1109+03	1.1225+03	1.1231+03
11	1.1546+03	1.1656+03	1.1509+03	1.1393+03	1.1497+03	1.1503+03
12	1.9753+03	1.9753+03	1.9753+03	1.9753+03	1.9753+03	1.9753+03
13	1.2164+03	1.2196+03	1.2168+03	1.2083+03	1.2145+03	1.2164+03
14	1.2465+03	1.2482+03	1.2475+03	1.2428+03	1.2454+03	1.2488+03
15	1.2799+03	1.2816+03	1.2828+03	1.2769+03	1.2785+03	1.2833+03
16	1.2891+03	1.2882+03	1.2903+03	1.2876+03	1.2886+03	1.2923+03
17	1.2868+03	1.2865+03	1.2875+03	1.2846+03	1.2858+03	1.2896+03
18	1.3061+03	1.3043+03	1.3085+03	1.3026+03	1.3038+03	1.3093+03
19	1.2917+03	1.2917+03	1.2919+03	1.2900+03	1.2912+03	1.2964+03

# LIQUID-LIQUID DATA

	721	727	730	733	736	742
	BW 24	BW 26	BW 27	BW 28	BW 29	BW 31
1	1.8443+03	1.8440+03	1.8426+03	1.8447+03	1.8406+03	1.8378+03
2	1.8329+03	1.8308+03	1.8305+03	1.8294+03	1.8292+03	1.0463+03
3	1.8190+03	1.8158+03	1.8147+03	1.8099+03	1.8155+03	1.8108+03
4	1.7934+03	1.7841+03	1.7835+03	1.7814+03	1.7845+03	1.7839+03
5	8.4820+02	8.4671+02	8.4820+02	8.4820+02	8.4345+02	8.4420+02
6	8.7101+02	8.6880+02	8.7119+02	8.7082+02	8.6668+02	8.6613+02
7	9.5212+02	9.5049+02	9.5194+02	9.5212+02	9.4729+02	9.4711+02
8	1.0294+03	1.0258+03	1.0282+03	1.0278+03	1.0220+03	1.0206+03
9	1.0779+03	1.0726+03	1.0746+03	1.0739+03	1.0691+03	1.0680+03
10	1.1180+03	1.1104+03	1.1126+03	1.1122+03	1.1089+03	1.1065+03
11	1.1458+03	1.1361+03	1.1384+03	1.1372+03	1.1344+03	1.1325+03
12	1.9753+03	1.5468+03	1.9753+03	1.9753+03	1.9753+03	1.5775+03
13	1.2126+03	1.2096+03	1.2117+03	1.2093+03	1.2090+03	1.2055+03
14	1.2470+03	1.2462+03	1.2477+03	1.2469+03	1.2447+03	1.2416+03
15	1.2821+03	1.2812+03	1.2828+03	1.2819+03	1.2793+03	1.2783+03
16	1.2913+03	1.2906+03	1.2916+03	1.2911+03	1.2879+03	1.2871+03
17	1.2890+03	1.2882+03	1.2890+03	1.2890+03	1.2853+03	1.2836+03
18	1.3086+03	1.3107+03	1.3091+03	1.3098+03	1.3033+03	1.3024+03
19	1.2950+03	1.2947+03	1.2949+03	1.2981+03	1.2910+03	1.2902+03

# LIQUID-LIQUID DATA

	745	748	754	757	760	763
	BW 32	BW 33	BW 35	BW 36	BW 37	BW 38
1	1.8371+03	1.8343+03	1.8350+03	1.8421+03	1.8356+03	1.8370+03
2	1.8228+03	1.8188+03	1.8198+03	1.8260+03	1.8180+03	1.8201+03
3	1.8069+03	1.8005+03	1.8002+03	1.8073+03	1.7983+03	1.8028+03
4	1.7724+03	1.7692+03	1.7649+03	1.7783+03	1.7682+03	1.7705+03
5	8.4197+02	8.4104+02	8.3713+02	8.4578+02	8.4355+02	8.4373+02
6	8.6502+02	8.6429+02	8.6006+02	8.6825+02	8.6641+02	8.6696+02
7	9.4327+02	9.4273+02	9.3742+02	9.4814+02	9.4541+02	9.4523+02
8	1.0146+03	1.0130+03	1.0062+03	1.0192+03	1.0138+03	1.0136+03
9	1.0575+03	1.0559+03	1.0443+03	1.0602+03	1.0509+03	1.0507+03
10	1.0928+03	1.0888+03	1.0759+03	1.0933+03	1.0832+03	1.0814+03
11	1.1166+03	1.1156+03	1.0999+03	1.1176+03	1.1060+03	1.1057+03
12	1.9753+03	1.9753+03	1.6382+03	1.9753+03	1.9753+03	1.9753+03
13	1.2006+03	1.1949+03	1.1917+03	1.2021+03	1.1920+03	1.1957+03
14	1.2404+03	1.2369+03	1.2357+03	1.2431+03	1.2367+03	1.2405+03
15	1.2762+03	1.2728+03	1.2744+03	1.2800+03	1.2754+03	1.2778+03
16	1.2850+03	1.2836+03	1.2829+03	1.2896+03	1.2853+03	1.2875+03
17	1.2838+03	1.2826+03	1.2824+03	1.2878+03	1.2844+03	1.2861+03
18	1.3029+03	1.3024+03	1.3024+03	1.3091+03	1.3069+03	1.3083+03
19	1.2902+03	1.2927+03	1.2895+03	1.2957+03	1.2938+03	1.2942+03

# LIQUID-LIQUID DATA

	766	769	772	775	778	781
	BW 39	BW 40	BW 41	BW 42	BW 43	BW 44
1	1.8392+03	1.8361+03	1.8392+03	1.8367+03	1.8367+03	1.8297+03
2	1.8209+03	1.8185+03	1.8218+03	1.8179+03	1.8209+03	1.8127+03
3	1.7998+03	1.7975+03	1.8009+03	1.7967+03	1.8041+03	1.7925+03
4	1.7654+03	1.7638+03	1.7694+03	1.7682+03	1.7743+03	1.7628+03
5	8.4113+02	8.4504+02	8.4485+02	8.4280+02	8.4466+02	8.3862+02
6	8.6438+02	8.6770+02	8.6806+02	8.6530+02	8.6714+02	8.6282+02
7	9.4285+02	9.4651+02	9.4669+02	9.4486+02	9.4705+02	9.4108+02
8	1.0109+03	1.0134+03	1.0161+03	1.0134+03	1.0160+03	1.0085+03
9	1.0477+03	1.0502+03	1.0561+03	1.0521+03	1.0564+03	1.0473+03
10	1.0775+03	1.0788+03	1.0875+03	1.0832+03	1.0890+03	1.0780+03
11	1.0995+03	1.1039+03	1.1118+03	1.1076+03	1.1143+03	1.1031+03
12	1.9753+03	1.9753+03	1.9753+03	1.9753+03	1.9753+03	1.9753+03
13	1.1936+03	1.1918+03	1.1966+03	1.1897+03	1.1969+03	1.1881+03
14	1.2375+03	1.2386+03	1.2406+03	1.2358+03	1.2398+03	1.2330+03
15	1.2754+03	1.2775+03	1.2780+03	1.2745+03	1.2780+03	1.2706+03
16	1.2862+03	1.2877+03	1.2882+03	1.2845+03	1.2870+03	1.2807+03
17	1.2848+03	1.2866+03	1.2870+03	1.2839+03	1.2861+03	1.2815+03
18	1.3063+03	1.3095+03	1.3076+03	1.3064+03	1.3076+03	1.3026+03
19	1.2932+03	1.2954+03	1.2957+03	1.2937+03	1.2952+03	1.2902+03

# LIQUID-LIQUID DATA

	784	787	790	802	808	811
	BW 45	BW 46	BW 47	BW 50	BW 52	BW 53
1	1.8319+03	1.8314+03	1.8293+03	1.8279+03	1.8265+03	1.8265+03
2	1.8162+03	1.8135+03	1.8110+03	1.8110+03	1.8075+03	1.8088+03
3	1.7975+03	1.7932+03	1.7900+03	1.7910+03	1.7863+03	1.7875+03
4	1.7667+03	1.7579+03	1.7594+03	1.7601+03	1.7557+03	1.7551+03
5	8.3936+02	8.3657+02	8.3918+02	8.3862+02	8.3639+02	8.3657+02
6	8.6190+02	8.5895+02	8.6190+02	8.6245+02	8.5969+02	8.6006+02
7	9.4016+02	9.3595+02	9.3870+02	9.3778+02	9.3504+02	9.3504+02
8	1.0080+03	1.0015+03	1.0040+03	1.0027+03	9.9787+02	9.9588+02
9	1.0466+03	1.0350+03	1.0389+03	1.0366+03	1.0298+03	1.0239+03
10	1.0782+03	1.0639+03	1.0682+03	1.0648+03	1.0554+03	1.0475+03
11	1.1027+03	1.0871+03	1.0912+03	1.0878+03	1.0777+03	1.0698+03
12	1.9753+03	1.9753+03	1.9753+03	1.9753+03	3.2000+01	1.9753+03
13	1.1905+03	1.1846+03	1.1825+03	1.1837+03	1.1751+03	1.1730+03
14	1.2344+03	1.2321+03	1.2297+03	1.2316+03	1.2245+03	1.2257+03
15	1.2721+03	1.2711+03	1.2687+03	1.2711+03	1.2668+03	1.2670+03
16	1.2821+03	1.2814+03	1.2790+03	1.2805+03	1.2749+03	1.2766+03
17	1.2817+03	1.2807+03	1.2793+03	1.2807+03	1.2762+03	1.2771+03
18	1.3038+03	1.3027+03	1.3016+03	1.3033+03	1.2999+03	1.2999+03
19	1.2904+03	1.2895+03	1.2910+03	1.2900+03	1.2878+03	1.2895+03

# LIQUID-LIQUID DATA

	814	817	820	823	829	643
	BW 54	BW 55	BW 56	BW 57	BW 59	BW 60
1	1.8275+03	1.8323+03	1.8304+03	1.8290+03	1.8281+03	1.8322+03
2	1.8079+03	1.8125+03	1.8110+03	1.8094+03	1.8083+03	1.8133+03
3	1.7856+03	1.7914+03	1.7881+03	1.7881+03	1.7845+03	1.7903+03
4	1.7491+03	1.7589+03	1.7551+03	1.7529+03	1.7496+03	1.7570+03
5	8.3136+02	8.3778+02	8.3797+02	8.3722+02	8.3574+02	8.3592+02
6	8.5656+02	8.6199+02	8.6199+02	8.6181+02	8.6015+02	8.5997+02
7	9.3065+02	9.3681+02	9.3662+02	9.3626+02	9.3534+02	9.3608+02
8	9.9154+02	9.9740+02	9.9596+02	9.9668+02	9.9523+02	9.9813+02
9	1.0191+03	1.0230+03	1.0208+03	1.0221+03	1.0214+03	1.0276+03
10	1.0407+03	1.0439+03	1.0405+03	1.0433+03	1.0426+03	1.0517+03
11	1.0632+03	1.0651+03	1.0608+03	1.0649+03	1.0644+03	1.0738+03
12	1.9753+03	1.9753+03	1.9753+03	1.9753+03	3.2000+01	1.9753+03
13	1.1685+03	1.1738+03	1.1678+03	1.1693+03	1.1657+03	1.1738+03
14	1.2231+03	1.2287+03	1.2235+03	1.2258+03	1.2235+03	1.2278+03
15	1.2654+03	1.2697+03	1.2668+03	1.2689+03	1.2658+03	1.2699+03
16	1.2756+03	1.2798+03	1.2760+03	1.2774+03	1.2752+03	1.2803+03
17	1.2771+03	1.2796+03	1.2767+03	1.2777+03	1.2764+03	1.2803+03
18	1.3009+03	1.3039+03	1.3032+03	1.3059+03	1.3032+03	1.3054+03
19	1.2909+03	1.2933+03	1.2928+03	1.2925+03	1.2916+03	1.2923+03



# LIQUID-LIQUID DATA

	646	398	832	838	841	845
	BW 61	BW 62	BW 63	BW 65	PFST	PFMT
1	1.8309+03	1.8289+03	1.8233+03	1.8240+03	1.8217+03	3.0480+02
2	1.8100+03	1.8089+03	1.8038+03	1.8044+03	1.7991+03	3.0110+02
3	1.7881+03	1.7886+03	1.7822+03	1.7807+03	1.7784+03	2.9798+02
4	1.7569+03	1.7572+03	1.7508+03	1.7444+03	1.7415+03	2.8993+02
5	8.3778+02	8.3908+02	8.3750+02	8.2895+02	8.2748+02	1.4740+02
6	8.6236+02	8.6310+02	8.6098+02	8.5323+02	8.5056+02	1.4890+02
7	9.3736+02	9.3754+02	9.3559+02	9.2735+02	9.2247+02	1.4854+02
8	9.9849+02	9.9740+02	9.9570+02	9.8466+02	9.7585+02	1.5167+02
9	1.0273+03	1.0235+03	1.0237+03	1.0068+03	9.9085+02	1.5462+02
10	1.0483+03	1.0449+03	1.0470+03	1.0259+03	1.0019+03	1.5655+02
11	1.0701+03	1.0665+03	1.0682+03	1.0473+03	1.0202+03	1.5941+02
12	1.9753+03	1.9753+03	1.9753+03	1.9753+03	1.1618+03	1.5408+03
13	1.1693+03	1.1674+03	1.1696+03	1.1609+03	1.1308+03	1.6333+02
14	1.2245+03	1.2239+03	1.2226+03	1.2183+03	1.1960+03	1.6781+02
15	1.2685+03	1.2677+03	1.2654+03	1.2621+03	1.2431+03	1.7185+02
16	1.2759+03	1.2755+03	1.2740+03	1.2723+03	1.2486+03	1.7621+02
17	1.2777+03	1.2764+03	1.2755+03	1.2724+03	1.2517+03	1.8046+02
18	1.3035+03	1.3018+03	1.3000+03	1.2976+03	1.2898+03	1.8541+02
19	1.2923+03	1.2914+03	1.2876+03	1.2878+03	1.2839+03	1.8478+02

# LIQUID-LIQUID DATA

	848	851	854	857	862	865
	PFLO-R	SIT/I	SIT	SIT	SOT	SOT
1	1.1745+01	1.7166+03	1.7169+03	1.7176+03	1.7591+03	1.7604+03
2	3.7886+00	1.6999+03	1.6991+03	1.6997+03	1.7405+03	1.6981+03
3	2.4750+00	1.6799+03	1.6787+03	1.6796+03	1.7208+03	1.6495+03
4	1.7342+00	1.6478+03	1.6469+03	1.6469+03	1.6889+03	1.6529+03
5	1.4830+00	8.1320+02	8.1386+02	8.1311+02	8.3025+02	8.3118+02
6	1.4795+00	8.3870+02	8.3910+02	8.3947+02	8.5674+02	8.5601+02
7	1.4359+00	9.0002+02	9.0045+02	9.0064+02	9.3120+02	9.3156+02
8	1.3823+00	9.3040+02	9.3219+02	9.3201+02	9.9588+02	9.9624+02
9	1.3945+00	9.1246+02	9.1546+02	9.1674+02	1.0273+03	1.0273+03
10	1.3487+00	9.0075+02	9.0652+02	9.0743+02	1.0536+03	1.0534+03
11	1.3021+00	9.1576+02	9.2219+02	9.2329+02	1.0776+03	1.0779+03
12	2.1737-02	1.4214+03	1.9753+03	1.9753+03	1.9753+03	1.9753+03
13	2.5189+00	9.7401+02	9.7999+02	9.8180+02	1.1486+03	1.1483+03
14	4.9158+00	1.0048+03	1.0121+03	1.0119+03	1.1923+03	1.1923+03
15	7.2018+00	1.0338+03	1.0417+03	1.0438+03	1.2281+03	1.2281+03
16	4.7764+00	9.6225+02	9.7052+02	9.7215+02	1.2510+03	1.2529+03
17	3.9353+00	9.0862+02	9.1620+02	9.1749+02	1.2569+03	1.2569+03
18	3.7496+00	1.0008+03	1.0006+03	1.0031+03	1.2884+03	1.2858+03
19	3.0555+00	9.5591+02	9.5374+02	9.5447+02	1.2820+03	1.2808+03

# LIQUID-LIQUID DATA

	598	868	871	877	880	883
	SOT-D	SOT/IS	VSCIT	VCSIT	VCSOT	VCSOT
1	1.7643+03	1.7586+03	1.7584+03	1.7606+03	1.7497+03	1.7489+03
2	1.7456+03	1.7409+03	1.7384+03	1.7397+03	1.7289+03	1.7292+03
3	1.7246+03	1.7241+03	1.7173+03	1.7188+03	1.7084+03	1.7077+03
4	1.6921+03	1.6929+03	1.6862+03	1.6878+03	1.6763+03	1.6752+03
5	8.2764+02	8.2643+02	8.2578+02	8.2727+02	8.1909+02	8.2020+02
6	8.5063+02	8.5321+02	8.5642+02	8.5679+02	8.4844+02	8.4900+02
7	9.2571+02	9.2564+02	9.2629+02	9.2757+02	9.1769+02	9.1897+02
8	9.8520+02	9.9121+02	9.9491+02	9.9582+02	9.8822+02	9.8822+02
9	1.0128+03	1.0208+03	1.0260+03	1.0268+03	1.0176+03	1.0178+03
10	1.0371+03	1.0437+03	1.0501+03	1.0503+03	1.0408+03	1.0410+03
11	1.0612+03	1.0665+03	1.0730+03	1.0734+03	1.0622+03	1.0643+03
12	1.9753+03	1.9753+03	1.9753+03	1.9753+03	1.9753+03	1.9753+03
13	1.1365+03	1.1354+03	1.1403+03	1.1405+03	1.1287+03	1.1287+03
14	1.1787+03	1.1786+03	1.1828+03	1.1858+03	1.1715+03	1.1717+03
15	1.2172+03	1.2159+03	1.2217+03	1.2229+03	1.2099+03	1.2094+03
16	1.2415+03	1.2370+03	1.2437+03	1.2447+03	1.2293+03	1.2297+03
17	1.2628+03	1.2336+03	1.2548+03	1.2543+03	1.2337+03	1.2353+03
18	1.2918+03	1.2658+03	1.2778+03	1.2795+03	1.2452+03	1.2492+03
19	1.2804+03	1.2711+03	1.2523+03	1.2531+03	1.2113+03	1.2155+03

# LIQUID-LIQUID DATA

	886	889	892	895	899	902
	VCSOT	HCSOT	HCSOT	SFST	SFMT	SFLO-R
1	1.7478+03	1.7476+03	1.7471+03	1.7067+03	2.3336+02	9.0534-01
2	1.7279+03	1.7271+03	1.7279+03	1.6901+03	2.3151+02	9.1942-01
3	1.7068+03	1.7061+03	1.7065+03	1.6742+03	2.2890+02	9.0284-01
4	1.6759+03	1.6743+03	1.6747+03	1.6433+03	2.2199+02	9.1160-01
5	8.1909+02	8.1274+02	8.1274+02	8.2000+02	1.2936+02	2.2821+00
6	8.4751+02	8.4509+02	8.4305+02	8.4496+02	1.2954+02	2.2784+00
7	9.1751+02	9.1128+02	9.1147+02	9.0525+02	1.2962+02	2.2767+00
8	9.8713+02	9.2884+02	9.2993+02	9.3343+02	1.3099+02	2.3211+00
9	1.0183+03	9.0615+02	9.0670+02	9.1651+02	1.3350+02	2.3343+00
10	1.0410+03	8.8790+02	8.8993+02	9.0366+02	1.3191+02	2.3473+00
11	1.0620+03	9.1055+02	9.1055+02	9.2067+02	1.3257+02	2.3329+00
12	1.9753+03	1.9753+03	1.9753+03	6.6968+02	1.4339+03	9.6430-03
13	1.1291+03	9.6220+02	9.6293+02	9.7522+02	1.3429+02	2.2916+00
14	1.1711+03	9.9160+02	9.9214+02	1.0032+03	1.3451+02	2.2452+00
15	1.2097+03	1.0241+03	1.0237+03	1.0320+03	1.3565+02	2.2481+00
16	1.2297+03	9.5111+02	9.4966+02	9.6157+02	1.3759+02	1.3504+00
17	1.2347+03	9.0072+02	9.0072+02	9.0954+02	1.3807+02	8.4392-01
18	1.2484+03	1.0036+03	1.0058+03	9.9933+02	1.4018+02	5.1258-01
19	1.2151+03	1.0427+03	1.0439+03	9.7434+02	1.3644+02	2.8565-01

# LIQUID-LIQUID DATA

	906	909	912	915	916	917
	PGTC	PGTC	PGTC	PGTC	SPIP	SPOP
1	6.8864+02	8.0488+02	8.7652+02	4.0938+02	1.1370+02	1.3202+02
2	6.9314+02	8.0345+02	8.8294+02	4.0386+02	1.0488+02	1.3200+02
3	6.9618+02	8.0089+02	8.8463+02	3.9854+02	9.6660+01	1.2366+02
4	6.9323+02	7.9178+02	8.7819+02	3.8855+02	8.2320+01	1.1046+02
5	3.4100+02	3.8556+02	3.9876+02	1.6542+02	-1.0080+01	3.3240+01
6	3.5636+02	4.0070+02	4.2198+02	1.7063+02	-9.1800+00	3.3360+01
7	3.6822+02	4.1150+02	4.3874+02	1.7323+02	-7.3200+00	3.4200+01
8	3.8323+02	4.2534+02	4.5991+02	1.8041+02	-6.3000+00	2.9340+01
9	3.9366+02	4.3734+02	4.7738+02	1.9234+02	-6.3000+00	2.9460+01
10	3.9999+02	4.4587+02	4.8811+02	2.1055+02	-6.6000+00	2.9700+01
11	4.0373+02	4.5005+02	4.9669+02	2.2529+02	-6.4200+00	2.9760+01
12	9.5120+02	8.6080+02	2.1970+03	9.9866+02	3.5700+01	3.8340+01
13	4.1499+02	4.5749+02	5.1381+02	2.4310+02	-4.6800+00	3.0360+01
14	4.2166+02	4.6167+02	5.2283+02	2.5131+02	-3.3000+00	3.0300+01
15	4.2838+02	4.6721+02	5.3409+02	2.5817+02	-1.9800+00	3.1860+01
16	4.3395+02	4.7179+02	5.4263+02	2.6319+02	-1.0200+00	1.3620+01
17	4.3091+02	4.6875+02	5.4003+02	2.6235+02	-1.0800+00	7.6800+00
18	4.3302+02	4.6470+02	5.4346+02	2.2322+02	1.6800+00	7.0200+00
19	4.3013+02	4.6316+02	5.4456+02	1.9792+02	2.4600+00	1.5180+01

# LIQUID-LIQUID DATA

	918	919	922	925	928	931
	BIP	BOP	VCAIT	VCAIT	VCAOT	VCAOT
1	1.2980+02	9.7400+01	4.9537+02	6.4031+02	7.7021+02	7.2085+02
2	1.2104+02	8.8720+01	4.9410+02	6.4203+02	7.6630+02	7.1669+02
3	1.1252+02	8.0970+01	4.8675+02	6.3669+02	7.5719+02	7.0815+02
4	9.8420+01	6.7640+01	4.7179+02	6.2083+02	7.4243+02	6.9187+02
5	-2.3200+00	-1.5440+01	1.7437+02	2.2969+02	3.3746+02	3.2504+02
6	-1.3000+00	-1.4510+01	1.7617+02	2.3361+02	3.5094+02	3.3898+02
7	3.2000-01	-1.2495+01	1.7731+02	2.3769+02	3.6322+02	3.4896+02
8	1.6400+00	-1.1720+01	1.8159+02	2.4575+02	3.8446+02	3.6950+02
9	1.8200+00	-1.0945+01	1.9445+02	2.5989+02	4.0765+02	3.9269+02
10	1.8200+00	-1.0170+01	2.0791+02	2.7429+02	4.2677+02	4.0929+02
11	2.1800+00	-9.5500+00	2.1913+02	2.8648+02	4.4521+02	4.2838+02
12	7.0220+01	-1.0720+01	8.9345+02	1.4068+03	8.2638+02	1.0455+03
13	3.4400+00	-7.3800+00	2.3760+02	3.0836+02	4.7592+02	4.5216+02
14	4.2200+00	-6.2950+00	2.4432+02	3.1897+02	4.9132+02	4.6800+02
15	5.8400+00	-4.7450+00	2.5386+02	3.2927+02	5.0822+02	4.8402+02
16	1.7600+00	-7.3800+00	2.6556+02	3.4427+02	5.2652+02	5.0056+02
17	-3.4000-01	-9.2400+00	2.7111+02	3.5466+02	5.4395+02	5.1447+02
18	8.0000-02	-8.0000+00	2.6759+02	3.6475+02	5.5187+02	5.2327+02
19	7.4000-01	-8.9300+00	2.6508+02	3.7104+02	5.5068+02	5.2252+02

# LIQUID-LIQUID DATA

	946	949	952	955	961	964
	VCAT	VCAT	VCAT	VCAT	VCWT	VCWT
1	1.7068+03	1.7179+03	1.7087+03	1.9185+03	1.7615+03	1.7609+03
2	1.6931+03	1.7001+03	1.6922+03	1.8954+03	1.7419+03	1.7408+03
3	1.6734+03	1.6831+03	1.6751+03	1.8804+03	1.7198+03	1.7195+03
4	1.6405+03	1.6501+03	1.6428+03	1.8514+03	1.6881+03	1.6876+03
5	7.3303+02	7.3597+02	7.3177+02	2.1970+03	8.2783+02	8.2690+02
6	7.6902+02	7.6946+02	7.6814+02	2.1970+03	8.5605+02	8.5439+02
7	8.1803+02	8.1971+02	8.1761+02	1.9619+03	9.2720+02	9.2647+02
8	8.9135+02	8.9429+02	8.9135+02	1.6649+03	9.9455+02	9.9401+02
9	9.3532+02	9.3742+02	9.3700+02	1.3427+03	1.0259+03	1.0262+03
10	9.6666+02	9.6750+02	9.6834+02	1.3530+03	1.0510+03	1.0494+03
11	9.9333+02	9.9501+02	9.9501+02	1.1695+03	1.0736+03	1.0718+03
12	2.0042+03	1.6096+03	1.6226+03	1.6101+03	3.2000+01	1.9753+03
13	1.0578+03	1.0916+02	1.0714+03	1.2283+03	1.1424+03	1.1391+03
14	1.0989+03	1.1028+03	1.1020+03	1.3240+03	1.1816+03	1.1814+03
15	1.1385+03	1.1414+03	1.1397+03	1.3297+03	1.2212+03	1.2205+03
16	1.1711+03	1.1727+03	1.1723+03	1.2844+03	1.2414+03	1.2418+03
17	1.1859+03	1.1872+03	1.1868+03	1.2578+03	1.2482+03	1.2481+03
18	1.2068+03	1.2076+03	1.2072+03	1.3368+03	1.2656+03	1.2702+03
19	1.1966+03	1.1860+03	1.1891+03	1.2961+03	1.2359+03	1.2378+03

# LIQUID-LIQUID DATA

	970	973	976	979	982	985
	VCWT	VCWT	VCWT	VCWT	VCWO	VCWI
1	1.7607+03	1.7587+03	1.7565+03	1.7560+03	1.7140+03	1.7076+03
2	1.7395+03	1.7392+03	1.7362+03	1.7356+03	1.6967+03	1.6905+03
3	1.7185+03	1.7179+03	1.7152+03	1.7149+03	1.6808+03	1.6746+03
4	1.6869+03	1.6862+03	1.6837+03	1.6822+03	1.6479+03	1.6419+03
5	8.2801+02	8.2690+02	8.2281+02	8.2467+02	7.1862+02	7.0784+02
6	8.5550+02	8.5550+02	8.5067+02	8.5253+02	7.5750+02	7.4735+02
7	9.2720+02	9.2629+02	9.2171+02	9.2373+02	7.9757+02	7.8707+02
8	9.9383+02	9.9346+02	9.8912+02	9.9111+02	8.7331+02	8.6275+02
9	1.0252+03	1.0243+03	1.0214+03	1.0216+03	9.2323+02	9.1357+02
10	1.0501+03	1.0487+03	1.0455+03	1.0460+03	9.5700+02	9.4818+02
11	1.0725+03	1.0704+03	1.0680+03	1.0688+03	9.8535+02	9.7653+02
12	3.2000+01	1.9753+03	1.9753+03	1.9753+03	1.4982+03	6.4312+02
13	1.1394+03	1.1384+03	1.1342+03	1.1349+03	1.0470+03	1.0382+03
14	1.1816+03	1.1809+03	1.1764+03	1.1774+03	1.0903+03	1.0831+03
15	1.2208+03	1.2196+03	1.2163+03	1.2155+03	1.1291+03	1.1207+03
16	1.2414+03	1.2406+03	1.2357+03	1.2357+03	1.1654+03	1.1583+03
17	1.2491+03	1.2469+03	1.2422+03	1.2420+03	1.1829+03	1.1760+03
18	1.2707+03	1.2688+03	1.2588+03	1.2592+03	1.2067+03	1.1991+03
19	1.2428+03	1.2395+03	1.2286+03	1.2284+03	1.1922+03	1.1883+03



# LIQUID-LIQUID DATA

	988	991	1042	1048	994	997
	HCAOT	HCAOT	HCAOTU	HCAOTU	HCIAT	HCIAT
1	1.6313+03	1.5939+03	1.5247+03	1.5344+03	1.6381+02	1.6117+02
2	1.6159+03	1.5802+03	1.5085+03	1.5212+03	1.5946+02	1.5946+02
3	1.5991+03	1.5627+03	1.4927+03	1.5077+03	1.5299+02	1.5607+02
4	1.5675+03	1.5288+03	1.4668+03	1.4831+03	1.4507+02	1.5211+02
5	2.4147+02	7.8359+02	9.2532+01	9.6052+01	3.2000+01	4.9493+02
6	2.1442+02	8.1185+02	9.5744+01	9.8824+01	3.2000+01	5.5446+02
7	2.0901+02	8.5412+02	1.0661+02	1.1057+02	3.2000+01	5.8161+02
8	8.1223+02	7.2261+02	7.7294+02	7.7905+02	6.5340+01	1.1330+02
9	6.8998+02	1.4947+03	6.9341+02	6.9429+02	7.7528+01	1.0305+02
10	6.2747+02	1.4660+03	6.3296+02	6.3296+02	8.6592+01	9.4512+01
11	6.5529+02	1.9797+03	6.5485+02	6.5573+02	9.3852+01	9.1652+01
12	2.1970+03	1.2003+03	1.0794+03	1.1771+03	6.1458+02	1.0396+03
13	7.0084+02	1.1856+03	7.0216+02	7.0568+02	9.7284+01	8.8924+01
14	7.2244+02	1.2510+03	7.2454+02	7.2790+02	9.9924+01	8.9364+01
15	7.4907+02	1.3297+03	7.5285+02	7.5579+02	1.0582+02	8.8660+01
16	7.1698+02	1.0804+03	7.2034+02	7.2286+02	1.1048+02	8.6724+01
17	7.3739+02	1.0978+03	7.3487+02	7.3739+02	1.0943+02	8.8748+01
18	9.4603+02	9.0823+02	9.0151+02	9.1327+02	9.0068+01	1.7285+02
19	1.0008+03	1.0365+03	8.7080+02	8.8268+02	6.9960+01	1.2364+02

# LIQUID-LIQUID DATA

	1000	1003	1006	1009	1012	1015
	HCAT	HCAT	HCAT	HCAT	HCAT	HCAT
1	4.2884+02	4.5841+02	8.1425+02	7.6801+02	1.0579+03	9.5091+02
2	4.3072+02	4.5890+02	8.1135+02	7.6718+02	1.0535+03	9.4759+02
3	4.2120+02	4.5067+02	7.9845+02	7.5377+02	1.0389+03	9.3385+02
4	4.0391+02	4.3086+02	7.7127+02	7.2983+02	1.0090+03	9.0613+02
5	7.4017+02	7.4017+02	7.1413+02	7.5789+02	7.1959+02	7.7109+02
6	7.9253+02	7.8245+02	7.5499+02	8.0135+02	7.7782+02	8.2422+02
7	8.4932+02	8.4252+02	8.3509+02	8.7709+02	8.4412+02	8.8917+02
8	1.7277+02	1.7655+02	3.0062+02	2.9071+02	3.9986+02	3.8666+02
9	1.4133+02	1.3825+02	2.2041+02	2.1689+02	2.9609+02	2.9785+02
10	1.2575+02	1.2179+02	1.9251+02	1.8767+02	2.5443+02	2.6059+02
11	1.2553+02	1.2245+02	1.9889+02	1.9185+02	2.6917+02	2.7049+02
12	7.7382+02	7.1715+02	6.8507+02	8.5620+02	7.4277+02	9.3293+02
13	1.2676+02	1.2588+02	2.1376+02	2.0144+02	2.8501+02	2.8317+02
14	1.2852+02	1.2676+02	2.1728+02	2.0628+02	2.9099+02	2.9329+02
15	1.3134+02	1.3002+02	2.2714+02	2.1218+02	3.0678+02	3.0326+02
16	1.2764+02	1.2852+02	2.2388+02	2.1288+02	3.0792+02	3.0264+02
17	1.3847+02	1.4287+02	2.4709+02	2.3827+02	3.4270+02	3.3534+02
18	2.1447+02	2.3029+02	4.1430+02	4.0039+02	5.6507+02	5.2283+02
19	3.9876+02	4.3980+02	6.7562+02	6.1876+02	8.3496+02	7.4802+02

# LIQUID-LIQUID DATA

	1018	1021	1024	1027	1030	1033
	HCAT	HCAT	HCAT	HCAT	HCAT	HCAT
1	1.2748+03	1.1109+03	1.3419+03	1.3266+03	1.7353+02	1.4226+03
2	1.3512+03	1.1025+03	1.3402+03	1.3178+03	1.6979+02	1.4105+03
3	1.3780+03	1.0887+03	1.3192+03	1.3030+03	1.6571+02	1.3951+03
4	1.4729+03	1.0620+03	1.2855+03	1.2695+03	1.6047+02	1.3618+03
5	2.1970+03	7.7549+02	7.3513+02	7.6757+02	1.0617+02	7.8401+02
6	2.1970+03	8.2730+02	7.9211+02	8.2026+02	1.0806+02	8.2334+02
7	2.1970+03	8.8917+02	8.5492+02	8.8281+02	1.0793+02	8.8581+02
8	2.1970+03	4.7214+02	5.7026+02	5.6894+02	1.1242+02	6.3031+02
9	2.1970+03	3.6087+02	4.3417+02	4.3637+02	1.1361+02	4.9445+02
10	2.1970+03	3.1439+02	3.7799+02	3.8283+02	1.1563+02	4.3839+02
11	2.1970+03	3.3102+02	3.9713+02	4.0373+02	1.1585+02	4.5929+02
12	8.3606+02	2.1970+03	8.8334+02	1.0358+03	9.6905+02	7.4151+02
13	2.1970+03	3.5439+02	4.2553+02	4.2921+02	1.1620+02	4.9176+02
14	2.1970+03	3.6448+02	4.3676+02	4.4556+02	1.1752+02	5.0804+02
15	2.1970+03	3.8094+02	4.5718+02	4.6510+02	1.2034+02	5.3066+02
16	2.1970+03	3.7504+02	4.5348+02	4.5568+02	1.2280+02	5.1816+02
17	2.1970+03	4.1522+02	4.9863+02	4.9907+02	1.2087+02	5.6111+02
18	2.1970+03	6.2303+02	7.4033+02	7.3823+02	1.1163+02	7.9845+02
19	2.1970+03	8.0110+02	9.7388+02	9.2684+02	1.0912+02	9.7304+02

# LIQUID-LIQUID DATA

	1036	1039	1045	1051	1057	1060
	HCAT	HCAT	HCAT	HCAT	HCAT	HCAT
1	1.5691+03	1.5005+03	1.6086+03	1.5700+03	1.6238+03	1.6449+03
2	1.5591+03	1.4860+03	1.5953+03	1.5564+03	1.6100+03	1.6287+03
3	1.5389+03	1.4703+03	1.5777+03	1.5403+03	1.5918+03	1.6116+03
4	1.5051+03	1.4360+03	1.5429+03	1.5055+03	1.5587+03	1.5781+03
5	7.4773+02	7.8569+02	7.4353+02	7.8947+02	7.9073+02	7.3177+02
6	7.8203+02	8.1983+02	7.7867+02	8.2466+02	8.2246+02	7.6330+02
7	8.4412+02	8.8149+02	8.3993+02	8.8455+02	8.8281+02	8.2189+02
8	6.9310+02	6.8045+02	7.2723+02	7.3353+02	7.7514+02	7.8451+02
9	5.4637+02	5.4329+02	5.9306+02	5.9600+02	6.4488+02	6.6845+02
10	4.8503+02	4.8503+02	5.3343+02	5.3167+02	5.7699+02	6.1075+02
11	5.0857+02	5.1077+02	5.5433+02	5.6005+02	6.0529+02	6.3527+02
12	1.0031+03	1.1477+03	1.2239+03	1.2854+03	2.1970+03	1.1330+03
13	5.4632+02	5.4720+02	5.9764+02	5.9680+02	6.4442+02	6.8196+02
14	5.6700+02	5.6612+02	6.1880+02	6.1748+02	6.6532+02	7.0524+02
15	5.9151+02	5.9151+02	6.4501+02	6.4501+02	6.9398+02	7.3605+02
16	5.7536+02	5.7404+02	6.2496+02	6.2452+02	6.7060+02	7.0392+02
17	6.1335+02	6.1071+02	6.5547+02	6.6031+02	7.0287+02	7.2353+02
18	8.6583+02	8.4748+02	8.9269+02	9.0109+02	9.3133+02	9.2965+02
19	1.0129+03	1.0012+03	1.0108+03	1.0272+03	1.0390+03	1.0037+03

# LIQUID-LIQUID DATA

	1063	1066	1069	1078	1086	1095
	HCAT	HCWO	HCWI	P BARO	W AIR	Q AIR
1	1.6550+03	1.6603+03	1.4581+03	1.4540+01	1.0828-01	3.8214+01
2	1.6399+03	1.6459+03	1.4500+03	1.4540+01	1.0320-01	3.6076+01
3	1.6222+03	1.6274+03	1.4302+03	1.4540+01	1.0340-01	3.5851+01
4	1.5878+03	1.5909+03	1.3886+03	1.4540+01	1.0442-01	3.5624+01
5	7.8107+02	7.8598+02	7.3752+02	1.4540+01	0.	-0.
6	8.1185+02	8.1723+02	8.1891+02	1.4304+01	0.	-0.
7	8.7225+02	8.8162+02	8.8425+02	1.4540+01	0.	-0.
8	8.0215+02	7.1975+02	4.7399+02	1.4540+01	1.5484-01	2.6200+01
9	6.7948+02	5.7814+02	3.2508+02	1.4540+01	3.3873-01	5.0150+01
10	6.1251+02	5.0923+02	2.7935+02	1.4540+01	4.8367-01	6.4154+01
11	6.3989+02	5.3409+02	2.9292+02	1.4540+01	4.4974-01	6.1943+01
12	1.2824+03	8.0572+02	1.5074+03	4.3427+01	1.3782-01	1.0886+01
13	6.8280+02	5.7805+02	3.1545+02	1.4540+01	4.3751-01	6.5594+01
14	7.0656+02	6.0083+02	3.2752+02	1.4540+01	4.4540-01	6.9139+01
15	7.3731+02	6.3023+02	3.4390+02	1.4540+01	4.2887-01	6.9376+01
16	7.0832+02	6.0675+02	3.4270+02	1.4540+01	4.2789-01	6.5512+01
17	7.3361+02	6.3884+02	3.8899+02	1.4540+01	3.2084-01	5.0272+01
18	9.4897+02	8.9853+02	7.0898+02	1.4540+01	1.1093-01	2.1407+01
19	1.0423+03	1.0176+03	9.5880+02	1.4540+01	3.3233-02	6.4258+00

# LIQUID-LIQUID DATA

1099

Q PRI

1	1.1594+02
2	6.1632+01
3	6.0337+01
4	5.8342+01
5	9.5662+00
6	7.9376+00
7	1.4419+01
8	2.8241+01
9	4.9271+01
10	6.3428+01
11	6.5900+01
12	0.
13	6.7021+01
14	6.9041+01
15	6.4879+01
16	4.7422+01
17	3.3979+01
18	1.7526+01
19	9.5899+00

TABLE A-3. NOMENCLATURE FOR TABLE A-4.

Column	Symbol	Identification
385	Date	9.0363 - 9/3/63
386	Time	1400 - Navy time
390	CB-1	Ambient temperature, °F (as measured at CATS block 1)
402	PFLO	Primary flow rate, lb/sec
410	SFLO	Secondary flow rate, lb/sec
412	BIP-T	Boiler inlet pressure gage temperature, °F (not operational in present tests)
414	BOP-T	Boiler outlet pressure gage temperature, °F
420	BIP	Boiler inlet pressure, psia
421	BOP	Boiler outlet pressure, psia
422-426	SOT	Secondary outlet temperature, °F
427, 429, 431	SIT	Secondary inlet temperature, °F
434	TSATKI	Saturation temperature of potassium at boiler inlet pressure, °F
435	DT SC	Subcooling of potassium at entrance to boiler, °F
500, 511, 516	PIT	Primary inlet temperature, °F
505, 521, 526	POT	Primary outlet temperature, °F
532-787	BW 1-BW 56	Boiler wall temperature, °F
795	QL	Boiler heat losses, Btu/sec
796	QPRI	Net heat transferred from primary stream in boiler, Btu/sec
800	QKL-B	Heat required to raise fluid temperature from SIT to SOT, Btu/sec
801	QB	QPRI-QKLB
803	MFV-B	Mass flow rate of vapor leaving boiler, lbs/sec
805	VFV-B	Volumetric flow rate of vapor leaving boiler, ft <sup>3</sup> /sec
807	VVEL-B	Superficial vapor velocity at boiler exit, ft/sec
808	QUALB	Quality of vapor leaving the boiler, dimensionless
816	DTSTAT	Difference between total and static temperatures for an ideal gas having VVEL-8 velocity at boiler exit
817	TSATK	Potassium static boiler outlet temperature, °F
820	PSATO	Vapor pressure of potassium at TSATK, psia
825	VHEAD	Velocity heads of potassium superficial vapor velocity at boiler exit, psi

TABLE A-3. NOMENCLATURE FOR TABLE A-4 (Continued)

Column	Symbol	Identification
826	DPB-G	Pressure drop across boiler tube computed from inlet and outlet gages, psi
827	DPB-ST	Pressure drop across boiler tube computed from inlet pressure gage and PSATO, psi
828	DTO-SO	Temperature difference between primary fluid and secondary fluid at secondary outlet, °F
829	DTO-SI	Temperature difference between primary fluid and secondary fluid at secondary inlet, °F
830	DTS-SI	Difference between primary fluid outlet temperature and saturation inlet temperature of secondary fluid, °F
837	LNDD-O	Logarithmic average of DTC-SO and DTO-SI
841	LNDD-S	Logarithmic average of DTO-SO and DTS-SI
842	RO	Over-all boiler thermal resistance, °F-sec/Btu
847	RNA	Sodium thermal resistance per foot of boiler length, ft-°F-sec/Btu
849	UO	Over-all heat transfer coefficient of boiler tube, Btu/ft <sup>2</sup> -°F-hr.
852-866	TBI-1-TBI-7	Boiler insert temperatures
868	SPOP-T	Secondary pump outlet pressure gage temperature, °F (not operational in present tests)
870	SPIP-T	Secondary pump inlet pressure gage temperature, °F
872	SPOP	Secondary pump outlet pressure, psig
874	SPIP	Secondary pump inlet pressure, psig
876	VCSIT	Vertical condenser potassium inlet temperature, °F
878-882	VCSOT	Vertical condenser potassium outlet temperature, °F
886	VCSOTA	Average of VCSOT, °F
888	VCOP	Vertical condenser outlet pressure, psia
891	DPVC	Pressure drop across vertical condenser, psi
893-895	HCSOT	Horizontal condenser potassium outlet temperature, °F



TABLE A-3. NOMENCLATURE FOR TABLE A-4 (Continued)

Column	Symbol	Identification
897-899	HCIA3	Horizontal condenser inlet air temperature, °F
901-945	HA	Horizontal condenser air annulus temperature, °F
951	HCOSTU	Horizontal condenser outer skin temperature upstream, °F
953	HCOSTD	Horizontal condenser outer skin temperature downstream, °F
961	MFA	Air mass flow rate in horizontal condenser, lbs/sec
965	QA	Heat removed in horizontal condenser, Btu/sec

TABLE A-4. DATA TAKEN DURING THE PERIOD AUGUST 30, 1963  
TO SEPTEMBER 23, 1963

300 KW RESULTS, MO TUBE WITH HELICAL INSERT

	385	386	390	402	410	414
	DATE	TIME	CB 1	PFL0	SFLO	BOP-T
1	9.2363+00	5.7000+01	7.5152+01	1.2960+00	1.8514+00	5.9332+02
2	9.2363+00	4.4500+02	7.0268+01	2.5265+00	1.8633+00	6.1115+02
3	9.2363+00	6.1500+02	6.8288+01	4.9357+00	1.8608+00	5.7805+02
4	9.2363+00	7.5000+02	6.7628+01	7.1562+00	1.8580+00	7.7955+02
5	9.2363+00	1.3300+03	7.9332+01	1.4245+01	1.8583+00	2.2749+02
6	9.2363+00	1.3300+03	8.1290+01	1.4232+01	1.8587+00	7.8797+02
7	9.2363+00	1.7500+03	8.5030+01	7.1322+00	3.5975-01	1.9438+03
8	9.2363+00	2.2430+03	7.7484+01	7.1806+00	1.8504+00	1.3080+03

# 300 KW RESULTS, MO TUBE WITH HELICAL INSERT

	420	421	422	424	426	427
	BIP	BOP	SOT-I	SOT	SOT	SIT-I
1	5.2826+01	2.7130+01	1.8985+03*	1.9197+03 *	1.0856+03	9.4958+02
2	5.2898+01	2.7359+01	1.6999+03*	1.9172+03 *	1.1201+03	9.6225+02
3	5.2633+01	2.7359+01	1.1488+03	1.9161+03 *	1.1485+03	9.8523+02
4	5.2849+01	2.8039+01	1.1816+03	1.9158+03 *	1.1584+03	9.9084+02
5	5.4009+01	2.8958+01	1.1631+03	1.1286+03	1.1287+03	9.8560+02
6	5.3913+01	2.8577+01	1.1335+03	1.1306+03	1.1306+03	9.8523+02
7	4.4519+01	2.6902+01	1.1760+03	1.1774+03	1.1770+03	9.6876+02
8	5.3575+01	2.8196+01	1.1582+03	1.1501+03	1.1499+03	9.9609+02

\*Digital readout device malfunctioned during the time these data points were taken.

# 300 KW RESULTS, MO TUBE WITH HELICAL INSERT

	429	431	500	505	511	516
	SIT	SIT	PIT-I	POT-I	PIT	PIT
1	1.9197+03	1.9197+03	1.1537+03	1.0316+03	1.1551+03	1.1546+03
2	1.9172+03	1.9172+03	1.1640+03	1.0890+03	1.1642+03	1.1635+03
3	1.9161+03	1.9161+03	1.1758+03	1.1347+03	1.1757+03	1.1753+03
4	1.2939+03	1.9158+03	1.1798+03	1.1510+03	1.1806+03	1.1796+03
5	1.7190+03	1.0991+03	1.1440+03	1.1289+03	1.1443+03	1.1433+03
6	1.9229+03	1.5689+03	1.1444+03	1.1294+03	1.1465+03	1.1453+03
7	1.9248+03	1.9248+03	1.1791+03	1.1692+03	1.1813+03	1.1806+03
8	1.0768+03	7.5079+02	1.1730+03	1.1451+03	1.1739+03	1.1731+03

# 300 KW RESULTS, MO TUBE WITH HELICAL INSERT

	521	526	532	537	542	547
	POT	POT	BW-1	BW-2	BW-3	BW-4
1	1.0322+03	1.0337+03	1.0510+03	1.0538+03	1.0547+03	1.0466+03
2	1.0896+03	1.0907+03	1.1124+03	1.1113+03	6.1847+02	1.1023+03
3	1.1345+03	1.1365+03	1.1546+03	1.1520+03	1.1505+03	1.1409+03
4	1.1511+03	1.1528+03	1.1674+03	1.1657+03	1.3102+03	1.1527+03
5	1.1296+03	1.1313+03	1.1311+03	1.1399+03	1.1371+03	1.1252+03
6	1.1317+03	1.1330+03	1.1425+03	1.1418+03	1.1386+03	1.1269+03
7	1.1727+03	1.1744+03	1.1833+03	1.1829+03	1.1798+03	1.1666+03
8	1.1465+03	1.1480+03	1.1605+03	1.1588+03	1.1576+03	1.1442+03

# 300 KW RESULTS, MO TUBE WITH HELICAL INSERT

	552	557	562	567	572	577
	BW-6	BW-7	BW-9	BW-10	BW-11	BW-12
1	1.0491+03	1.0457+03	1.0827+03	1.0669+03	1.0711+03	1.0634+03
2	1.1094+03	1.1068+03	1.1369+03	1.1203+03	1.1241+03	1.1179+03
3	1.1522+03	1.1523+03	1.1718+03	1.1562+03	1.1595+03	1.1559+03
4	1.1655+03	1.1665+03	1.1826+03	1.1687+03	1.1712+03	1.1678+03
5	1.1307+03	1.1417+03	1.1520+03	1.1402+03	1.1414+03	1.1400+03
6	1.1398+03	1.1434+03	1.1542+03	1.1421+03	1.1432+03	1.1421+03
7	1.1808+03	1.1853+03	1.1941+03	1.1825+03	1.1824+03	1.1816+03
8	1.1592+03	1.1602+03	1.1757+03	1.1617+03	1.1637+03	1.1610+03

# 300 KW RESULTS, MO TUBE WITH HELICAL INSERT

	582	587	592	597	602	607
	BW-13	BW-15	BW-16	BW-17	BW-18	BW-19
1	1.0615+03	1.0677+03	1.0665+03	1.0938+03	1.0847+03	1.0807+03
2	1.1165+03	1.1246+03	1.1226+03	1.1398+03	1.1310+03	1.1292+03
3	1.1567+03	1.1622+03	1.1611+03	1.1671+03	1.1616+03	1.1609+03
4	1.1697+03	1.1748+03	1.1728+03	1.1762+03	1.1717+03	1.1707+03
5	1.1415+03	1.1505+03	1.1429+03	1.1430+03	1.1414+03	1.1397+03
6	1.1432+03	1.1481+03	1.1446+03	1.1452+03	1.1431+03	1.1414+03
7	1.1830+03	1.1894+03	1.1838+03	1.1831+03	1.1817+03	1.1798+03
8	1.1621+03	1.1683+03	1.1652+03	1.1684+03	1.1652+03	1.1636+03

# 300 KW RESULTS, MO TUBE WITH HELICAL INSERT

	612	622	632	637	642	647
	BW-20	BW-22	BW-24	BW-25	BW-26	BW-27
1	1.0819+03	1.0864+03	1.0903+03	1.1112+03	1.1084+03	1.0975+03
2	1.1323+03	1.1381+03	1.1381+03	1.1484+03	1.1454+03	1.1399+03
3	1.1648+03	1.1694+03	1.1687+03	1.1706+03	1.1694+03	1.1669+03
4	1.1755+03	1.1787+03	1.1781+03	1.1777+03	1.1769+03	1.1755+03
5	1.1448+03	1.1470+03	1.1489+03	1.1437+03	1.1444+03	1.1432+03
6	1.1466+03	1.1487+03	1.1479+03	1.1455+03	1.1457+03	1.1452+03
7	1.1849+03	1.1867+03	1.1861+03	1.1823+03	1.1831+03	1.1821+03
8	1.1687+03	1.1720+03	1.1707+03	1.1713+03	1.1704+03	1.1691+03



# 300 KW RESULTS, MO TUBE WITH HELICAL INSERT

	652	657	662	667	672	677
	BW-28	BW-29	BW-30	BW-32	HW-33	BW-34
1	1.0899+03	1.5601+03	1.9331+03	1.1118+03	1.1266+03	1.1142+03
2	1.1361+03	1.2195+03	1.9308+03	1.1502+03	1.1551+03	1.1492+03
3	1.1663+03	6.8599+02	1.9300+03	1.1742+03	1.1753+03	1.1712+03
4	1.1754+03	1.9297+03	1.9298+03	1.1816+03	1.1816+03	1.1788+03
5	1.1431+03	6.8916+02	4.5169+02	1.1484+03	1.1480+03	1.1453+03
6	1.1444+03	6.5401+02	3.6643+02	1.1496+03	1.1495+03	1.1470+03
7	1.1818+03	1.9389+03	1.9390+03	1.1859+03	1.1861+03	1.1831+03
8	1.1683+03	7.3218+02	1.9349+03	1.1747+03	1.1753+03	1.1720+03

# 300 KW RESULTS, MO TUBE WITH HELICAL INSERT

	682	687	692	697	702	707
	BW-35	BW-36	BW-37	BW-38	BW-39	BW-40
1	1.1100+03	1.1009+03	1.1079+03	1.1227+03	1.1220+03	1.1318+03
2	1.1494+03	1.1423+03	1.1445+03	1.1543+03	1.1525+03	1.1576+03
3	1.1740+03	1.1696+03	1.1692+03	1.1729+03	1.1717+03	1.1755+03
4	1.1823+03	1.1768+03	1.1767+03	1.1795+03	1.1782+03	1.1815+03
5	1.1488+03	1.1433+03	1.1429+03	1.1455+03	1.1438+03	1.1471+03
6	1.1500+03	1.1450+03	1.1440+03	1.1474+03	1.1453+03	1.1481+03
7	1.1866+03	1.1809+03	1.1803+03	1.1827+03	1.1810+03	1.1841+03
8	1.1751+03	1.1697+03	1.1694+03	1.1736+03	1.1709+03	1.1750+03

# 300 KW RESULTS, MO TUBE WITH HELICAL INSERT

	712	717	722	727	732	737
	BW-41	BW-42	BW-43	BW-44	BW-45	BW-46
1	1.1337+03	1.1287+03	1.1216+03	1.1237+03	1.1366+03	1.1383+03
2	1.1560+03	1.1553+03	1.1525+03	1.1525+03	1.1590+03	1.1584+03
3	1.1727+03	1.1735+03	1.1735+03	1.1724+03	1.1757+03	1.1727+03
4	1.1791+03	1.1797+03	1.1793+03	1.1788+03	1.1815+03	1.1782+03
5	1.1435+03	1.1451+03	1.1447+03	1.1437+03	1.1459+03	1.1426+03
6	1.1454+03	1.1466+03	1.1464+03	1.1454+03	1.1478+03	1.1439+03
7	1.1806+03	1.1823+03	1.1813+03	1.1806+03	1.1828+03	1.1795+03
8	1.1720+03	1.1731+03	1.1722+03	1.1718+03	1.1747+03	1.1714+03

# 300 KW RESULTS, MO TUBE WITH HELICAL INSERT

	742	747	752	757	762	767
	BW-47	BW-48	BW-49	BW-50	BW-51	BW-52
1	1.1429+03	1.1420+03	1.1507+03	1.1483+03	1.1491+03	1.1508+03
2	1.1597+03	1.1588+03	1.1651+03	1.1621+03	1.1631+03	1.1630+03
3	1.1742+03	1.1734+03	1.1787+03	1.1761+03	1.1761+03	1.1767+03
4	1.1795+03	1.1792+03	1.1840+03	1.1817+03	1.1814+03	1.1815+03
5	1.1436+03	1.1437+03	1.1486+03	1.1456+03	1.1453+03	1.1455+03
6	1.1457+03	1.1456+03	1.1500+03	1.1473+03	1.1470+03	1.1473+03
7	1.1808+03	1.1806+03	1.1853+03	1.1822+03	1.1826+03	1.1823+03
8	1.1729+03	1.1723+03	1.1778+03	1.1744+03	1.1748+03	1.1747+03

# 300 KW RESULTS, MO TUBE WITH HELICAL INSERT

	772	777	782	787	795	796
	BW-53	BW-54	BW-55	BW-56	QL	QPRI
1	1.1539+03	1.1369+03	1.1513+03	1.1487+03	5.6970-01	4.6912+01
2	1.1665+03	1.1471+03	1.1640+03	1.1622+03	6.2570-01	5.6223+01
3	1.1793+03	1.1633+03	1.1774+03	1.1753+03	6.7377-01	6.0176+01
4	1.1844+03	1.1793+03	1.1825+03	1.1804+03	6.9082-01	6.1096+01
5	1.1486+03	1.1432+03	1.1466+03	1.1444+03	6.4217-01	6.4166+01
6	1.1499+03	1.1454+03	1.1481+03	1.1461+03	6.4290-01	6.3346+01
7	1.1853+03	1.1801+03	1.1835+03	1.1813+03	7.0552-01	2.0545+01
8	1.1775+03	1.1725+03	1.1755+03	1.1742+03	6.8009-01	5.9500+01

# 300 KW RESULTS, MO TUBE WITH HELICAL INSERT

	826	828	829	837	842	847
	DPB-G	DTO-SO	DTO-SI	LNDT-O	RO	RNA
1	2.5696+01	1.1537+03	8.2056+01	4.0541+02	8.6419+00	4.5706+00
2	2.5540+01	1.1640+03	1.2676+02	4.6778+02	8.3201+00	3.4994+00
3	2.5274+01	1.1758+03	1.4947+02	4.9760+02	8.2690+00	2.6771+00
4	2.4810+01	1.1798+03	1.6019+02	5.1065+02	8.3581+00	2.3075+00
5	2.5052+01	1.1440+03	1.4329+02	4.8173+02	7.5075+00	1.7520+00
6	2.5336+01	1.1444+03	1.4418+02	4.8284+02	7.6222+00	1.7527+00
7	1.7617+01	1.1791+03	2.0043+02	5.5229+02	2.6882+01	2.3106+00
8	2.5378+01	1.1730+03	1.4899+02	4.9627+02	8.3407+00	2.3043+00

# 300 KW RESULTS, MO TUBE WITH HELICAL INSERT

	849	852	854	856	860	862
	UO	TBI-1	TBI-2	TBI-3	TBI-4	TBI-5
1	2.9739+02	1.0260+03	1.0314+03	1.0327+03	1.0586+03	1.0808+03
2	3.0889+02	1.0432+03	1.0604+03	1.0696+03	1.0997+03	1.1244+03
3	3.1080+02	1.0661+03	1.0904+03	1.1041+03	1.1374+03	1.1614+03
4	3.0749+02	1.0727+03	1.0997+03	1.1151+03	1.1496+03	1.1740+03
5	3.4233+02	1.0390+03	1.0683+03	1.0824+03	1.1168+03	1.1399+03
6	3.3717+02	1.0423+03	1.0687+03	1.0828+03	1.1173+03	1.1404+03
7	9.5604+01	1.0474+03	1.1433+03	1.1740+03	1.1948+03	1.2069+03
8	3.0813+02	1.0648+03	1.0844+03	1.0993+03	1.1320+03	1.1567+03

# 300 KW RESULTS, MO TUBE WITH HELICAL INSERT

	864	866	870	872	874	876
	TBI-6	TBI-7	SPIP-T	SPOP	SPIP	VCSIT
1	1.0949+03	1.0971+03	4.3408+02	5.5454+01	-7.5151+00	1.0852+03
2	1.1395+03	1.1395+03	4.3628+02	5.5302+01	-7.5151+00	1.1198+03
3	1.1756+03	1.1727+03	4.3672+02	5.5302+01	-7.5151+00	1.1476+03
4	1.1882+03	1.1843+03	4.3980+02	5.5074+01	-7.5151+00	1.1579+03
5	1.1521+03	1.1462+03	4.3848+02	5.5759+01	-7.5151+00	1.1293+03
6	1.1521+03	1.1467+03	4.3716+02	5.5530+01	-7.5151+00	1.1296+03
7	1.2094+03	1.1979+03	4.2594+02	5.5835+01	-7.5151+00	1.1648+03
8	1.1706+03	1.1681+03	4.3848+02	5.5378+01	-7.5151+00	1.1488+03



# 300 KW RESULTS, MO TUBE WITH HELICAL INSERT

	878	880	882	886	893	895
	VCSOT	VCSOT	VCSOT	VCSOTA	HCSOT	HCSOT
1	1.0790+03	1.0804+03	1.0794+03	1.0796+03	1.9221+03	9.6032+02
2	1.1136+03	1.1148+03	1.1143+03	1.1142+03	1.9197+03	9.6875+02
3	1.1408+03	1.1420+03	1.1408+03	1.1412+03	1.9189+03	9.8891+02
4	1.1510+03	1.1512+03	1.1512+03	1.1512+03	1.9185+03	9.9410+02
5	1.1231+03	1.1238+03	1.1233+03	1.1234+03	1.6115+03	9.8268+02
6	1.1232+03	1.1236+03	1.1239+03	1.1236+03	1.9264+03	9.7937+02
7	1.1447+03	1.1450+03	1.1450+03	1.1449+03	1.9276+03	1.0223+03
8	1.1424+03	1.1431+03	1.1429+03	1.1428+03	9.9925+02	9.9744+02

# 300 KW RESULTS, MO TUBE WITH HELICAL INSERT

	897	899	901	903	905	907
	HCIA3	HCIA3	3HA9	9HA9	3HA21	9HA21
1	5.9950+01	5.9070+01	1.0395+02	1.1011+02	2.5155+02	1.8526+02
2	5.1757+01	5.0377+01	9.1058+01	9.6338+01	2.3460+02	1.6876+02
3	4.9112+01	4.7732+01	9.0288+01	9.6448+01	2.3554+02	1.6760+02
4	5.2539+01	5.1159+01	9.3126+01	9.8406+01	2.3657+02	1.6947+02
5	8.4722+01	8.1642+01	1.2256+02	1.2784+02	2.6356+02	1.9856+02
6	8.2434+01	8.1554+01	1.2335+02	1.2775+02	2.6347+02	1.9847+02
7	8.9606+01	8.6966+01	2.8710+02	3.1521+02	5.6549+02	4.9509+02
8	6.0456+01	5.9136+01	1.0358+02	1.0842+02	2.4991+02	1.8407+02

# 300 KW RESULTS, MO TUBE WITH HELICAL INSERT

	909	911	915	917	919	923
	3HA33	9HA33	9HA45	3HA57	9HA57	9HA69
1	3.3099+02	2.6343+02	3.5077+02	4.6807+02	7.0070+01	5.0767+02
2	3.0390+02	2.4300+02	3.2120+02	4.3890+02	6.5538+01	4.7366+02
3	3.1061+02	2.4604+02	3.2729+02	4.4957+02	6.3008+01	4.8433+02
4	3.1125+02	2.4623+02	3.2566+02	4.5021+02	6.4966+01	4.8145+02
5	3.3481+02	2.7325+02	3.4907+02	4.6952+02	8.6922+01	4.9504+02
6	3.3242+02	2.7408+02	3.5220+02	4.6547+02	8.5074+01	5.0375+02
7	7.2897+02	5.8221+02	6.5193+02	8.8931+02	8.0366+01	8.5986+02
8	3.2508+02	2.6306+02	3.4670+02	4.6638+02	7.1896+01	5.0510+02

# 300 KW RESULTS, MO TUBE WITH HELICAL INSERT

	925	927	931	935	941	943
	3HA81	9HA81	9HA93	3HA93	9HA105	3HA117
1	6.0787+02	5.6487+02	6.0442+02	6.6451+02	6.5131+02	7.4056+02
2	5.8366+02	5.3262+02	5.6958+02	6.4142+02	6.1698+02	7.1944+02
3	5.9642+02	5.4505+02	5.8289+02	6.5569+02	6.3228+02	7.3550+02
4	5.9661+02	5.4349+02	5.8133+02	6.5633+02	6.3079+02	7.3527+02
5	6.0976+02	5.5708+02	5.9195+02	6.6244+02	6.3747+02	7.3901+02
6	6.0447+02	5.6139+02	5.9817+02	6.6015+02	6.4369+02	7.3767+02
7	9.6533+02	9.0527+02	9.3341+02	9.8591+02	9.5399+02	9.9557+02
8	6.1366+02	5.6626+02	6.0449+02	6.7159+02	6.5314+02	7.5197+02

# 300 KW RESULTS, MO TUBE WITH HELICAL INSERT

	945	951	953	961	965
	9HA117	HCOSTU	HCOSTD	MFA	QA
1	3.7379+02	3.6587+02	6.6011+02	3.2192-01	5.3858+01
2	2.1018+02	3.3408+02	6.3218+02	4.1202-01	6.7552+01
3	2.5593+02	3.4431+02	6.4866+02	4.1598-01	7.0166+01
4	1.9905+02	3.4452+02	6.4929+02	4.3181-01	7.2455+01
5	1.2344+02	3.7744+02	6.5848+02	4.1639-01	6.7136+01
6	3.9187+02	3.7295+02	6.5883+02	4.1684-01	6.7185+01
7	4.4317+02	8.7681+02	9.8297+02	4.3971-02	9.9555+00
8	3.4026+02	3.6372+02	6.6722+02	4.0009-01	6.8071+01

TABLE A-5. NOMENCLATURE FOR TABLE A-6.

Some of the temperatures reported were derived from thermocouples with cold junctions in an ice bath, while others were derived from thermocouples with cold junctions at a CATS block. The former temperatures are identified by the subscript (I) as in POT-I.

Col. No.	Title	Description
202	Date	12.263 - 12/26/63
203	Time	2335 - Navy time
205	PFMST	Primary flowmeter stream temperature, °F
207	PFMT	Primary flowmeter magnet temperature, °F
209	SFMST	Secondary flowmeter stream temperature, °F
211	SFMMT	Secondary flowmeter magnet temperature, °F
215	PFLO	Primary flowrate, lb/sec.
219	SFLO	Secondary flowrate, lb/sec.
230, 244, 252	PIT	Primary inlet temperature, °F
259, 267, 275	POT	Primary outlet temperature, °F
314 - 384	GSBW	Grounded platinum-platinum 10% rhodium boiler outer wall thermocouple temp., °F
392 - 424	USBW	Ungrounded platinum-platinum 10% rhodium boiler outer wall thermocouple temp., °F
475, 477, 479	SIT	Secondary inlet temperature, °F
480, 482, 484	SOT	Secondary outlet temperature, °F
486 - 498	BI	Boiler insert thermocouple temperature, °F

TABLE A-5. NOMENCLATURE FOR TABLE A-6 (Continued)

Col. No.	Title	Description
502	BIP	Pressure at boiler inlet, psia
505	BOP	Pressure at boiler outlet, psia
506	DP-B	Pressure drop across boiler tube, psi
507	TSAT-I	Saturation temperature at boiler inlet pressure, °F
508	DTSC	Subcooling of potassium at entrance to boiler, °F
512	QSC	Heat necessary to raise the potassium temperature from SIT to TSAT-I, Btu/sec.
521	QL	Boiler heat losses, Btu/sec.
526	QPRI	Net heat transferred from primary stream in boiler, Btu/sec.
530	QFLUX	Average heat flux in boiler based upon the inner area, Btu/(hr-ft <sup>2</sup> )
537	QUAL-B	Vapor quality, dimensionless
538	MFV-B	Mass flowrate of vapor leaving boiler, lb/sec.
542	VVEL-B	Superficial vapor velocity at boiler exit, ft/sec.
543	DTO-SO	Temperature difference between primary fluid and secondary fluid at secondary outlet, °F
544	DTO-SI	Temperature difference between primary fluid and secondary fluid at secondary inlet, °F
548	DTLM-O	Logarithmic average of DTO-SO and DTO-SI.
549	UO	Overall heat transfer coefficient of boiler tube, Btu/ft <sup>2</sup> -°F-hr
600, 603, 605	VCIT	Vertical condenser inlet temperature, °F

TABLE A-5. NOMENCLATURE FOR TABLE A-6 (Continued)

Col. No.	Title	Description
606, 608, 610	VCOT	Vertical condenser outlet temperature, °F
611	SP VCO	Vapor pressure of potassium at VCOT-I, psia
613	DP-VC	Pressure drop across vertical condenser, psi
614, 616, 618	HCOT	Horizontal condenser outlet temperature, °F
622, 624	HCAI	Horizontal condenser air inlet temp., °F
626	HCAO-H	Horizontal condenser air outlet, temp., °F
628	HCO-T	Horizontal condenser air temperature at inlet orifice, °F.
630 - 658	HA	Horizontal condenser air annulus temp., °F
660	HCOSTU	Horizontal condenser outer skin temperature upstream, °F
662	HCOSTD	Horizontal condenser outer skin temperature downstream, °F
672	WA	Mass flow rate of air in horizontal condenser, lb/sec.
680	QA	Heat removed in horizontal condenser, Btu/sec.
694	DTLMHC	Logarithmic average of temperature difference across horizontal condenser
697	UO HC	Overall heat transfer coefficient of horizontal condenser, Btu/ft <sup>2</sup> -°F-hr



TABLE A-6. DATA TAKEN DURING THE PERIOD NOVEMBER 29, 1963 TO DECEMBER 31, 1963

## 300 KW RESULTS, L-605 TUBE WITH HELICAL INSERT

	202	203	205	207	209	211
	DATE	TIME	PFMST	PFMMT	SFMST	SFMMT
1	1.1293+01	1.6300+03	9.1113+02	3.2000+01	1.2290+03	3.2000+01
2	1.1293+01	1.7260+03	9.3352+02	3.2000+01	1.6117+03	3.2000+01
3	1.1293+01	1.8300+03	9.2117+02	3.2000+01	3.7742+02	3.2000+01
4	1.1293+01	1.9010+03	9.3881+02	3.2000+01	7.6106+02	3.2000+01
5	1.1293+01	2.0010+03	9.5099+02	3.2690+01	3.1074+02	3.2000+01
6	1.1293+01	2.1310+03	9.4855+02	3.3702+01	3.2000+01	3.2000+01
7	1.2023+01	2.1360+03	1.0115+03	1.1202+02	1.0019+03	8.9144+01
8	1.2023+01	2.3280+03	1.0381+03	1.1519+02	1.0158+03	9.0552+01
9	1.2033+01	2.0000+02	1.0878+03	1.1854+02	1.0658+03	9.2576+01
10	1.2033+01	2.0000+02	1.0909+03	1.2065+02	1.0825+03	9.3808+01
11	1.2033+01	5.3000+02	1.0368+03	1.1876+02	1.0188+03	9.1476+01
12	1.2033+01	6.3000+02	1.0467+03	1.1849+02	1.0294+03	9.1212+01
13	1.2083+01	1.5000+02	1.1960+03	1.6487+02	1.1663+03	1.3187+02
14	1.2083+01	3.3500+02	1.2004+03	1.6907+02	1.1738+03	1.3407+02
15	1.2083+01	5.3000+02	1.2114+03	1.6786+02	1.0292+03	1.2575+02
16	1.2083+01	9.2200+02	1.2124+03	1.6240+02	1.0151+03	1.1488+02
17	1.2083+01	9.4200+02	1.2190+03	1.6183+02	1.0099+03	1.1343+02
18	1.2083+01	1.4100+03	1.4137+03	1.8635+02	1.3746+03	1.3983+02
19	1.2083+01	1.5480+03	1.3953+03	1.8697+02	1.3607+03	1.4001+02
20	1.2083+01	1.6170+03	1.3995+03	1.8697+02	1.3046+03	1.3913+02
21	1.2083+01	1.7060+03	1.4027+03	1.8670+02	1.2499+03	1.3578+02
22	1.2083+01	2.2010+03	1.6025+03	2.1192+02	1.5456+03	1.5748+02
23	1.2083+01	2.2450+03	1.6196+03	2.1491+02	1.4421+03	1.5739+02
24	1.2083+01	2.2450+03	1.6040+03	2.1473+02	1.3941+03	1.5281+02
25	1.2093+01	1.2400+02	1.6058+03	2.1161+02	1.5541+03	1.5189+02

# 300 KW RESULTS, L-605 TUBE WITH HELICAL INSERT

	215	219	230	244	252	259
	PFL0	SFLO	PIT-I	PIT	PIT	POT-I
1	1.1466-01	2.2434-02	8.1656+02	1.9052+03*	8.0365+02	8.1804+02
2	1.1687-01	2.2686-02	8.3945+02	1.9052+03*	8.2387+02	8.4091+02
3	1.0721-01	2.4858-02	8.2494+02	3.2000+01*	8.0760+02	8.2622+02
4	1.1708-01	2.0163-02	8.4391+02	1.9052+03*	8.2779+02	8.4649+02
5	1.1313-01	2.8245-02	8.5746+02	1.9052+03*	8.3953+02	8.5909+02
6	1.1382-01	5.2096-02	8.5377+02	3.2000+01*	8.3636+02	8.5707+02
7	5.6734+00	2.0101+00	1.0147+03	1.0234+03	1.0237+03	1.0176+03
8	9.8441+00	2.1587+00	1.0414+03	1.0496+03	1.0496+03	1.0426+03
9	9.9453+00	2.1701+00	1.0910+03	1.0990+03	1.0987+03	1.0926+03
10	1.0724+01	2.1779+00	1.0929+03	1.1011+03	1.1014+03	1.0961+03
11	1.2875+01	2.2893+00	1.0408+03	1.0498+03	1.0492+03	1.0419+03
12	1.3643+01	2.0831+00	1.0507+03	1.0594+03	1.0594+03	1.0528+03
13	7.1640+00	1.6041+00	1.1994+03	1.2074+03	1.2073+03	1.1987+03
14	2.8653+00	1.6019+00	1.2088+03	1.2164+03	1.2165+03	1.2035+03
15	2.8614+00	1.9670-01	1.2214+03	1.2288+03	1.2290+03	1.2152+03
16	7.0778+00	1.8322-01	1.2166+03	1.2238+03	1.2240+03	1.2144+03
17	7.0722+00	1.8310-01	1.2240+03	1.2309+03	1.2309+03	1.2223+03
18	6.9420+00	1.6391+00	1.4197+03	1.4239+03	1.4241+03	1.4154+03
19	2.8107+00	1.6482+00	1.4067+03	1.4115+03	1.4115+03	1.3959+03
20	2.8095+00	3.5959-01	1.4088+03	1.4132+03	1.4131+03	1.4011+03
21	7.0212+00	3.6081-01	1.4082+03	1.4127+03	1.4127+03	1.4033+03
22	6.9375+00	1.6881+00	1.6060+03	1.6074+03	1.6071+03	1.5977+03
23	6.9151+00	3.3874-01	1.6223+03	1.6228+03	1.6227+03	1.6149+03
24	2.7588+00	3.3163-01	1.6198+03	1.6202+03	1.6201+03	1.6001+03
25	2.7520+00	1.6994+00	1.6225+03	1.6239+03	1.6234+03	1.6027+03

\*Digital readout device malfunctioned during the time these data points were taken.

# 300 KW RESULTS, L-605 TUBE WITH HELICAL INSERT

	267	275	314	324	338	352
	POT	POT	GSBW91	GSBW80	GSBW69	GSBW58
1	8.0015+02	7.9996+02	8.6048+02	7.9522+02	9.9711+02	9.3720+02
2	8.2332+02	8.2351+02	8.1080+02	8.1805+02	1.0157+03	9.5682+02
3	8.0801+02	8.0820+02	6.7702+02	8.0367+02	9.4064+02	7.8683+02
4	8.2741+02	8.2723+02	7.1493+02	8.2205+02	1.0173+03	8.2553+02
5	8.3931+02	8.3950+02	8.2331+02	8.3428+02	5.1339+02	8.3856+02
6	8.3801+02	8.3783+02	6.0543+02	8.3198+02	3.8572+02	7.2432+02
7	1.0228+03	1.0233+03	9.0020+02	1.0209+03	1.0214+03	1.0090+03
8	1.0483+03	1.0480+03	9.8712+02	1.0481+03	1.0477+03	1.0365+03
9	1.0974+03	1.0974+03	1.0363+03	1.0972+03	1.1742+03	1.0864+03
10	1.1015+03	1.1015+03	1.0469+03	1.0988+03	1.1461+03	1.0872+03
11	1.0485+03	1.0480+03	1.0252+03	1.0472+03	1.2044+03	1.0360+03
12	1.0584+03	1.0581+03	1.0464+03	1.0571+03	1.2117+03	1.0457+03
13	1.2037+03	1.2039+03	1.2252+03	1.2057+03	1.2063+03	1.1964+03
14	1.2077+03	1.2077+03	1.2468+03	1.2115+03	1.2125+03	1.2034+03
15	1.2191+03	1.2194+03	1.2740+03	1.2271+03	1.2267+03	1.2176+03
16	1.2195+03	1.2190+03	1.1602+03	1.2224+03	1.3514+03	1.2126+03
17	1.2265+03	1.2265+03	1.1722+03	1.2298+03	1.3573+03	1.2201+03
18	1.4171+03	1.4169+03	1.4446+03	1.4212+03	1.4211+03	1.4157+03
19	1.3979+03	1.3979+03	1.4205+03	1.4037+03	1.4047+03	1.4001+03
20	1.4022+03	1.4025+03	1.4281+03	1.4102+03	1.4119+03	1.4042+03
21	1.4053+03	1.4049+03	1.4284+03	1.4107+03	1.4166+03	1.4038+03
22	1.5953+03	1.5961+03	1.5204+03	1.6033+03	1.5747+03	1.6022+03
23	1.6116+03	1.6121+03	1.4487+03	1.6207+03	1.6671+03	1.6188+03
24	1.5967+03	1.5970+03	1.4404+03	1.6152+03	1.5175+03	1.6149+03
25	1.5999+03	1.6005+03	1.4529+03	1.6112+03	1.6758+03	1.6148+03

# 300 KW RESULTS, L-605 TUBE WITH HELICAL INSERT

	362	374	384	392	403	414
	GSBW47	GSBW36	GSBW25	USBW58	USBW47	USBW36
1	9.5539+02	1.0072+03	8.0066+02	7.9532+02	7.9636+02	7.9975+02
2	9.7431+02	1.0241+03	8.2284+02	8.2422+02	8.1905+02	8.2290+02
3	4.8780+02	9.3153+02	8.0877+02	8.0968+02	8.0418+02	8.0806+02
4	7.5366+02	8.6231+02	8.2701+02	8.2775+02	8.2346+02	8.2678+02
5	7.5750+02	8.8893+02	8.3917+02	8.4050+02	8.3542+02	8.3908+02
6	5.7617+02	3.9653+02	8.3628+02	8.3723+02	8.3274+02	8.3611+02
7	1.0262+03	1.0278+03	1.0250+03	1.0280+03	1.0223+03	1.0263+03
8	1.0540+03	1.0560+03	1.0531+03	1.0548+03	1.0489+03	1.0535+03
9	1.1032+03	1.1050+03	1.1023+03	1.1039+03	1.0984+03	1.1025+03
10	1.1038+03	1.1056+03	1.1029+03	1.1067+03	1.1001+03	1.1044+03
11	1.0532+03	1.0550+03	1.0520+03	1.0548+03	1.0484+03	1.0530+03
12	1.0629+03	1.0648+03	1.0619+03	1.0646+03	1.0581+03	1.0629+03
13	1.2127+03	1.2141+03	1.2123+03	1.2136+03	1.2083+03	1.2121+03
14	1.2202+03	1.2221+03	1.2204+03	1.2208+03	1.2162+03	1.2201+03
15	1.2335+03	1.2348+03	1.2330+03	1.2341+03	1.2291+03	1.2326+03
16	1.2286+03	1.2298+03	1.2279+03	1.2294+03	1.2241+03	1.2282+03
17	1.2358+03	1.2370+03	1.2352+03	1.2365+03	1.2315+03	1.2351+03
18	1.4280+03	1.4292+03	1.4274+03	1.4269+03	1.4246+03	1.4276+03
19	1.4135+03	1.4157+03	1.4141+03	1.4126+03	1.4102+03	1.4141+03
20	1.4169+03	1.4180+03	1.4163+03	1.4158+03	1.4134+03	1.4162+03
21	1.4167+03	1.4176+03	1.4158+03	1.4161+03	1.4130+03	1.4162+03
22	1.6100+03	1.6109+03	1.6099+03	1.6064+03	1.6075+03	1.6092+03
23	1.6252+03	1.6259+03	1.6248+03	1.6215+03	1.6232+03	1.6242+03
24	1.6219+03	1.6228+03	1.6217+03	1.6183+03	1.6196+03	1.6211+03
25	1.6230+03	1.6253+03	1.6249+03	1.6186+03	1.6209+03	1.6239+03

# 300 KW RESULTS, L-605 TUBE WITH HELICAL INSERT

	424	475	477	479	480	482
	USBW25	SIT-I	SIT	SIT	SOT-I	SOT
1	7.9150+02	1.8985+03	7.7398+02	7.7417+02	8.1208+02	7.8940+02
2	8.1387+02	1.8985+03	8.0048+02	7.9992+02	8.3480+02	8.1339+02
3	7.9857+02	1.5304+03	7.9391+02	7.9354+02	8.2103+02	7.9861+02
4	8.1891+02	1.8985+03	8.0815+02	8.0852+02	8.4038+02	8.1824+02
5	8.3015+02	1.8985+03	8.1992+02	8.1973+02	8.5284+02	8.3015+02
6	8.2745+02	1.1465+03	8.2624+02	8.2661+02	8.4001+02	8.1731+02
7	1.0200+03	1.0136+03	1.0148+03	1.0146+03	1.0141+03	1.0155+03
8	1.0460+03	1.0267+03	1.0277+03	1.0279+03	1.0378+03	1.0393+03
9	1.0955+03	1.0774+03	1.0782+03	1.0784+03	1.0874+03	1.0893+03
10	1.0981+03	1.0949+03	1.0952+03	1.0956+03	1.0933+03	1.0956+03
11	1.0457+03	1.0303+03	1.0313+03	1.0313+03	1.0383+03	1.0400+03
12	1.0553+03	1.0412+03	1.0416+03	1.0420+03	1.0482+03	1.0502+03
13	1.2045+03	1.1772+03	1.1767+03	1.1767+03	1.1961+03	1.1979+03
14	1.2129+03	1.1854+03	1.1843+03	1.1845+03	1.2032+03	1.2047+03
15	1.2248+03	1.0356+03	1.0336+03	1.0334+03	1.2123+03	1.2136+03
16	1.2199+03	1.0208+03	1.0195+03	1.0187+03	1.2062+03	1.2070+03
17	1.2272+03	1.0157+03	1.0145+03	1.0145+03	1.2125+03	1.2146+03
18	1.4200+03	1.3876+03	1.3873+03	1.3873+03	1.4135+03	1.4158+03
19	1.4067+03	1.3729+03	1.3722+03	1.3718+03	1.3978+03	1.3995+03
20	1.4084+03	1.3147+03	1.3131+03	1.3128+03	1.4032+03	1.4048+03
21	1.4082+03	1.2579+03	1.2568+03	1.2561+03	1.4035+03	1.4042+03
22	1.6018+03	1.5588+03	1.5572+03	1.5570+03	1.5986+03	1.6003+03
23	1.6175+03	1.4534+03	1.4516+03	1.4511+03	1.5772+03	1.5781+03
24	1.6141+03	1.3987+03	1.3965+03	1.3960+03	1.5712+03	1.5719+03
25	1.6173+03	1.5678+03	1.5665+03	1.5663+03	1.6083+03	1.6103+03

## 300 KW RESULTS, L-605 TUBE WITH HELICAL INSERT

	484	486	488	490	492	494
	SOT	BI93	BI80	BI69	BI58	BI47
1	7.8978+02	9.0567+02	9.0987+02	2.1970+03	9.1575+02	9.1869+02
2	8.1339+02	9.3100+02	9.3478+02	2.1970+03	9.3856+02	9.4108+02
3	7.9861+02	9.2495+02	9.2663+02	2.1970+03	9.2999+02	9.3125+02
4	8.1824+02	9.3965+02	9.4217+02	1.5859+03	9.4553+02	9.4721+02
5	8.2996+02	9.5099+02	9.5393+02	1.4081+03	9.5771+02	9.5939+02
6	8.1713+02	9.5779+02	9.5653+02	2.1970+03	9.5485+02	9.5275+02
7	1.0155+03	1.0199+03	1.0191+03	1.0195+03	1.0191+03	1.0195+03
8	1.0391+03	1.0347+03	1.0381+03	1.0402+03	1.0423+03	1.0444+03
9	1.0890+03	1.0854+03	1.0882+03	1.0902+03	1.0918+03	1.0934+03
10	1.0949+03	1.1016+03	1.1002+03	1.0998+03	1.0989+03	1.0989+03
11	1.0397+03	1.0377+03	1.0398+03	1.0415+03	1.0427+03	1.0444+03
12	1.0497+03	1.0483+03	1.0504+03	1.0521+03	1.0535+03	1.0548+03
13	1.1976+03	1.1837+03	1.1894+03	1.1938+03	1.1973+03	1.2000+03
14	1.2044+03	1.1921+03	1.1960+03	1.2000+03	1.2030+03	1.2059+03
15	1.2133+03	1.1102+03	1.2114+03	1.2257+03	1.2282+03	1.2295+03
16	1.2068+03	1.1181+03	1.2145+03	1.2241+03	1.2254+03	1.2262+03
17	1.2146+03	1.1205+03	1.2207+03	1.2307+03	1.2320+03	1.2328+03
18	1.4153+03	1.3956+03	1.4023+03	1.4082+03	1.4120+03	1.4162+03
19	1.3995+03	1.3813+03	1.3862+03	1.3919+03	1.3962+03	1.4004+03
20	1.4044+03	1.3348+03	1.3862+03	1.4050+03	1.4121+03	1.4151+03
21	1.4039+03	1.2920+03	1.3749+03	1.4027+03	1.4115+03	1.4148+03
22	1.5998+03	1.5668+03	1.5791+03	1.5874+03	1.5946+03	1.6006+03
23	1.5773+03	1.4892+03	1.5996+03	1.6196+03	1.6275+03	1.6297+03
24	1.5711+03	1.4565+03	1.5656+03	1.6031+03	1.6194+03	1.6339+03
25	1.6098+03	1.5752+03	1.5849+03	1.5925+03	1.6003+03	1.6072+03

# 300 KW RESULTS, L-605 TUBE WITH HELICAL INSERT

	496	498	502	505	506	521
	BI36	BI25	BIP	BOP	DP-B	QL
1	9.1995+02	3.2000+01	6.3853+00	4.9118+00	1.4735+00	8.8488-01
2	9.4234+02	3.2000+01	6.3853+00	4.9118+00	1.4735+00	9.7786-01
3	9.3209+02	3.2000+01	6.3853+00	4.9118+00	1.4735+00	9.1778-01
4	9.4805+02	3.2000+01	6.3853+00	4.9118+00	1.4735+00	9.9915-01
5	9.6023+02	3.2000+01	6.3853+00	4.9118+00	1.4735+00	1.0562+00
6	9.5149+02	3.2000+01	6.3853+00	4.9118+00	1.4735+00	1.0435+00
7	1.0191+03	1.7785+02	6.3853+00	4.9118+00	1.4735+00	1.6749+00
8	1.0452+03	3.0691+02	6.3853+00	4.9118+00	1.4735+00	1.8396+00
9	1.0946+03	3.2000+01	6.3853+00	4.9118+00	1.4735+00	2.1917+00
10	1.0989+03	3.2000+01	-2.2432+00	-3.7168+00	1.4735+00	2.2129+00
11	1.0452+03	5.0136+02	6.3853+00	4.9118+00	1.4735+00	1.8381+00
12	1.0557+03	2.7005+02	6.3853+00	4.9118+00	1.4735+00	1.9092+00
13	1.2021+03	2.5219+02	4.8875+01	4.0986+01	7.8897+00	2.7455+00
14	1.2084+03	5.6828+01	4.9894+01	4.2299+01	7.5949+00	2.7852+00
15	1.2299+03	1.3279+02	4.3585+01	4.2453+01	1.1320+00	2.8908+00
16	1.2258+03	7.1140+02	4.4745+01	4.3380+01	1.3649+00	2.9037+00
17	1.2328+03	5.8618+02	4.4830+01	4.3380+01	1.4497+00	2.9799+00
18	1.4189+03	2.3958+02	5.5410+01	4.7165+01	8.2448+00	5.1680+00
19	1.4033+03	5.1205+02	5.5580+01	4.7243+01	8.3373+00	4.9099+00
20	1.4164+03	6.2149+02	4.8423+01	4.5311+01	3.1113+00	4.9529+00
21	1.4161+03	6.4757+02	4.8253+01	4.5080+01	3.1733+00	4.9606+00
22	1.6043+03	4.2773+02	6.6047+01	5.5199+01	1.0848+01	8.0141+00
23	1.6310+03	4.0924+02	5.8494+01	5.5431+01	3.0629+00	8.3042+00
24	1.6269+03	5.1033+02	5.8380+01	5.5353+01	3.0270+00	8.1071+00
25	1.6123+03	4.0105+02	6.5764+01	5.5971+01	9.7925+00	8.1756+00

# 300 KW RESULTS, L-605 TUBE WITH HELICAL INSERT

	526	530	600	603	605	606
	QPRI	QFLUX	VCIT-I	VCIT	VCIT	VCOT-I
1	-9.3630-01	-2.4766+03	1.8985+03	7.8432+02	7.8414+02	8.0310+02
2	-1.0298+00	-2.7241+03	1.8985+03	8.0778+02	8.0684+02	8.3052+02
3	-9.5965-01	-2.5384+03	9.6460+02	7.9484+02	7.9408+02	8.1880+02
4	-1.0906+00	-2.8847+03	1.4139+03	8.1362+02	8.1324+02	8.3759+02
5	-1.1120+00	-2.9413+03	1.7363+02	8.2616+02	8.2542+02	8.5005+02
6	-1.1570+00	-3.0605+03	3.2000+01	8.1880+02	8.1787+02	8.4763+02
7	-6.7102+00	-1.7749+04	1.0134+03	1.0134+03	1.0133+03	1.0120+03
8	-5.5078+00	-1.4569+04	1.0353+03	1.0357+03	1.0349+03	1.0326+03
9	-6.8885+00	-1.8221+04	1.0850+03	1.0860+03	1.0856+03	1.0827+03
10	-1.2369+01	-3.2717+04	1.0926+03	1.0930+03	1.0927+03	1.0920+03
11	-5.9518+00	-1.5743+04	1.0363+03	1.0370+03	1.0362+03	1.0344+03
12	-1.0523+01	-2.7833+04	1.0464+03	1.0465+03	1.0463+03	1.0442+03
13	-1.1839+00	-3.1316+03	1.1919+03	1.1928+03	1.1918+03	1.1882+03
14	1.7632+00	4.6639+03	1.1991+03	1.1997+03	1.1994+03	1.1956+03
15	2.4314+00	6.4312+03	1.1744+03	1.1754+03	1.1744+03	1.1418+03
16	1.7775+00	4.7016+03	1.1635+03	1.1643+03	1.1638+03	1.1291+03
17	6.9811-01	1.8466+03	1.1744+03	1.1750+03	1.1747+03	1.1374+03
18	3.9523+00	1.0454+04	1.4083+03	1.4091+03	1.4081+03	1.4028+03
19	4.1993+00	1.1108+04	1.3923+03	1.3932+03	1.3927+03	1.3871+03
20	1.6102+00	4.2592+03	1.3764+03	1.3779+03	1.3766+03	1.3560+03
21	5.4421+00	1.4395+04	1.3795+03	1.3809+03	1.3795+03	1.3546+03
22	9.7500+00	2.5790+04	1.5893+03	1.5903+03	1.5899+03	1.5818+03
23	7.3558+00	1.9457+04	1.5714+03	1.5718+03	1.5705+03	1.5366+03
24	8.4568+00	2.2369+04	1.5672+03	1.5677+03	1.5667+03	1.5296+03
25	8.4993+00	2.2481+04	1.5990+03	1.6003+03	1.5994+03	1.5911+03



# 300 KW RESULTS, L-605 TUBE WITH HELICAL INSERT

	608	610	614	616	618	622
	VCOT	VCOT	HCOT-I	HCOT	HCOT	HCAI
1	7.7981+02	7.7981+02	8.0086+02	7.7492+02	7.7474+02	5.7673+02
2	8.0385+02	8.0422+02	8.2624+02	7.9880+02	7.9842+02	6.1531+02
3	7.9202+02	7.9183+02	8.1619+02	7.8826+02	1.9753+03	6.2679+02
4	8.1006+02	8.1062+02	8.3387+02	8.0614+02	8.0595+02	6.1847+02
5	8.2281+02	8.2281+02	8.4670+02	8.1872+02	8.1853+02	6.4213+02
6	8.2029+02	8.2048+02	8.5024+02	8.2289+02	8.2345+02	6.3260+02
7	1.0115+03	1.0109+03	1.0123+03	1.0100+03	1.0107+03	7.0527+02
8	1.0323+03	1.0321+03	1.0292+03	1.0281+03	1.0285+03	7.1063+02
9	1.0823+03	1.0826+03	1.0800+03	1.0789+03	1.0787+03	7.4821+02
10	1.0911+03	1.0909+03	1.0929+03	1.0913+03	1.0913+03	7.6942+02
11	1.0342+03	1.0340+03	1.0317+03	1.0301+03	1.0308+03	7.1910+02
12	1.0435+03	1.0436+03	1.0417+03	1.0410+03	1.0410+03	7.2605+02
13	1.1883+03	1.1878+03	1.1844+03	1.1832+03	1.1832+03	8.4804+02
14	1.1950+03	1.1950+03	1.1915+03	1.1915+03	1.1907+03	8.5232+02
15	1.1415+03	1.1417+03	1.1064+03	1.1060+03	1.1054+03	8.1002+02
16	1.1283+03	1.1285+03	1.0951+03	1.0952+03	1.0947+03	8.0385+02
17	1.1364+03	1.1368+03	1.0945+03	1.0948+03	1.0953+03	8.0213+02
18	1.4027+03	1.4022+03	1.3968+03	1.3957+03	1.3957+03	1.0195+03
19	1.3861+03	1.3866+03	1.3810+03	1.3807+03	1.3799+03	1.0124+03
20	1.3553+03	1.3558+03	1.3401+03	1.3384+03	1.3377+03	9.9921+02
21	1.3547+03	1.3545+03	1.3233+03	1.3230+03	1.3225+03	9.8314+02
22	1.5808+03	1.5816+03	1.5735+03	1.5734+03	1.5716+03	1.1589+03
23	1.5356+03	1.5357+03	1.4963+03	1.4958+03	1.4951+03	1.1266+03
24	1.5284+03	1.5286+03	1.4838+03	1.4853+03	1.4840+03	1.1169+03
25	1.5911+03	1.5911+03	1.5834+03	1.5821+03	1.5814+03	1.1512+03

# 300 KW RESULTS, L-605 TUBE WITH HELICAL INSERT

	624	626	628	630	632	634
	HCAI	HCAO-H	HCOT	3HA9	9HA9	3HA21
1	3.9137+02	1.8985+03	2.1970+03	8.7881+02	8.5448+02	8.9332+02
2	4.2279+02	1.8985+03	3.2000+01	9.0464+02	8.8055+02	9.1850+02
3	4.3287+02	9.8413+02	3.2000+01	8.9922+02	8.7399+02	9.1308+02
4	4.3599+02	1.5492+03	3.2000+01	9.1355+02	8.8961+02	9.2741+02
5	4.4361+02	2.1437+02	3.2000+01	9.2543+02	9.0149+02	9.3929+02
6	4.3890+02	8.0756+01	3.2000+01	9.2262+02	8.9826+02	9.3648+02
7	5.0367+02	1.9630+02	8.8946+01	9.9158+02	9.6722+02	1.0054+03
8	5.0947+02	2.0909+02	9.1674+01	1.0080+03	9.8369+02	1.0219+03
9	5.4956+02	2.1990+02	9.2158+01	1.0584+03	1.0341+03	1.0724+03
10	5.6234+02	2.2529+02	9.3060+01	1.0733+03	1.0480+03	1.0858+03
11	5.2215+02	2.1747+02	9.4226+01	1.0122+03	9.8738+02	1.0256+03
12	5.2547+02	2.1796+02	9.3148+01	1.0216+03	9.9727+02	1.0351+03
13	6.6092+02	2.9385+02	1.2236+02	1.1618+03	1.1396+03	1.1748+03
14	6.6071+02	2.8893+02	1.2707+02	1.1697+03	1.1470+03	1.1829+03
15	6.6195+02	2.8219+02	1.3299+02	1.1117+03	1.0869+03	1.1228+03
16	6.0976+02	2.6856+02	1.2960+02	1.1008+03	1.0770+03	1.1132+03
17	6.0840+02	2.7203+02	1.2868+02	1.1061+03	1.0818+03	1.1174+03
18	8.2075+02	3.2614+02	1.2791+02	1.3723+03	1.3517+03	1.3864+03
19	8.0977+02	3.1082+02	1.3493+02	1.3584+03	1.3368+03	1.3714+03
20	7.9829+02	3.0978+02	1.3609+02	1.3287+03	1.3059+03	1.3419+03
21	7.7886+02	3.0988+02	1.3730+02	1.3223+03	1.2997+03	1.3343+03
22	9.6595+02	3.5706+02	1.4087+02	1.5484+03	1.5273+03	1.5620+03
23	9.3749+02	3.6454+02	1.4535+02	1.4992+03	1.4776+03	1.5120+03
24	7.1803+02	3.5137+02	1.5187+02	1.4903+03	1.4687+03	1.5031+03
25	9.7004+02	3.4765+02	1.4953+02	1.5575+03	1.5373+03	1.5711+03

# 300 KW RESULTS, L-605 TUBE WITH HELICAL INSERT

	636	638	640	642	644	646
	9HA21	3HA33	9HA33	3HA45	3HA57	3HA69
1	8.5968+02	8.7045+02	8.2801+02	2.1970+03	8.8534+02	3.2000+01
2	8.8574+02	8.9624+02	8.5126+02	2.1970+03	9.1052+02	3.2000+01
3	8.8015+02	8.8998+02	8.4450+02	1.8255+03	9.0510+02	3.2000+01
4	8.9507+02	9.0515+02	8.5854+02	1.9788+03	9.1985+02	3.2000+01
5	9.0695+02	9.1703+02	8.6977+02	1.6976+03	9.3173+02	3.2000+01
6	9.0372+02	9.1464+02	8.6682+02	1.4559+03	9.3018+02	3.2000+01
7	9.7352+02	9.8360+02	9.4286+02	9.3446+02	9.9830+02	6.2546+01
8	9.8999+02	1.0005+03	9.5807+02	9.5009+02	1.0139+03	6.2634+01
9	1.0408+03	1.0509+03	1.0047+03	9.9717+02	1.0650+03	6.2238+01
10	1.0553+03	1.0654+03	1.0182+03	1.0102+03	1.0798+03	6.3580+01
11	9.9326+02	1.0038+03	9.5966+02	9.5084+02	1.0180+03	6.2546+01
12	1.0036+03	1.0137+03	9.6955+02	9.6073+02	1.0279+03	6.2348+01
13	1.1463+03	1.1547+03	1.1042+03	1.1033+03	1.1685+03	1.0036+02
14	1.1541+03	1.1621+03	1.1111+03	1.1106+03	1.1760+03	0.9472+01
15	1.0913+03	1.0985+03	1.0496+03	1.0471+03	1.1091+03	9.1630+01
16	1.0818+03	1.0886+03	1.0405+03	1.0367+03	1.0995+03	8.4722+01
17	1.0858+03	1.0926+03	1.0442+03	1.0400+03	1.1021+03	8.2918+01
18	1.3597+03	1.3614+03	1.3021+03	1.2969+03	1.3798+03	9.9748+01
19	1.3451+03	1.3473+03	1.2876+03	1.2821+03	1.3656+03	9.6646+01
20	1.3144+03	1.3161+03	1.2559+03	1.2493+03	1.3340+03	9.2532+01
21	1.3067+03	1.3084+03	1.2492+03	1.2422+03	1.3227+03	9.6822+01
22	1.5369+03	1.5317+03	1.4652+03	1.4577+03	1.5559+03	1.0743+02
23	1.4847+03	1.4790+03	1.4122+03	1.4025+03	1.4988+03	1.0619+02
24	1.4762+03	1.4701+03	1.4041+03	1.3936+03	1.4890+03	9.9946+01
25	1.5465+03	1.5403+03	1.4739+03	1.4651+03	1.5645+03	1.0377+02

# 300 KW RESULTS, L-605 TUBE WITH HELICAL INSERT

	648	650	652	654	656	658
	9HA69	3HA93	9HA93	9HA105	3HA117	9HA117
1	8.6913+02	3.2000+01	8.4728+02	8.3197+02	8.4968+02	8.3593+02
2	8.9540+02	3.2000+01	8.7219+02	8.5606+02	8.7483+02	8.5966+02
3	8.9040+02	3.2000+01	8.6695+02	8.5090+02	8.6959+02	8.5450+02
4	9.0473+02	3.2000+01	8.8195+02	8.6435+02	8.8457+02	8.6875+02
5	9.1619+02	3.2000+01	8.9393+02	8.7681+02	8.9645+02	8.8077+02
6	9.1548+02	3.2000+01	8.9406+02	8.7738+02	8.9784+02	8.8266+02
7	9.8402+02	5.0587+02	9.6176+02	9.4496+02	9.6344+02	9.4832+02
8	1.0005+03	3.0319+02	9.7781+02	9.6017+02	9.7907+02	9.6353+02
9	1.0509+03	3.2000+01	1.0287+03	1.0102+03	1.0291+03	1.0114+03
10	1.0663+03	3.2000+01	1.0438+03	1.0253+03	1.0438+03	1.0257+03
11	1.0033+03	1.0635+03	9.8192+02	9.6344+02	9.8192+02	9.6596+02
12	1.0141+03	8.9628+01	9.9139+02	9.7375+02	9.9181+02	9.7543+02
13	1.1551+03	3.2000+01	1.1333+03	1.1130+03	1.1307+03	1.1108+03
14	1.1630+03	3.2000+01	1.1407+03	1.1210+03	1.1386+03	1.1180+03
15	1.0933+03	3.2000+01	1.0684+03	1.0458+03	1.0618+03	1.0433+03
16	1.0846+03	8.9893+02	1.0588+03	1.0367+03	1.0522+03	1.0342+03
17	1.0862+03	6.7497+02	1.0584+03	1.0366+03	1.0505+03	1.0329+03
18	1.3681+03	3.2000+01	1.3447+03	1.3213+03	1.3311+03	1.3096+03
19	1.3542+03	7.4787+02	1.3297+03	1.3078+03	1.3171+03	1.2946+03
20	1.3224+03	8.4452+02	1.2985+03	1.2756+03	1.2853+03	1.2629+03
21	1.3105+03	9.2770+02	1.2827+03	1.2589+03	1.2680+03	1.2452+03
22	1.5453+03	3.2000+01	1.5202+03	1.4947+03	1.4965+03	1.4731+03
23	1.4869+03	3.2000+01	1.4578+03	1.4306+03	1.4314+03	1.4093+03
24	1.4767+03	1.2547+02	1.4472+03	1.4199+03	1.4203+03	1.3983+03
25	1.5544+03	3.6877+02	1.5293+03	2.1101+02	2.0925+02	1.4823+03

# 300 KW RESULTS, L-605 TUBE WITH HELICAL INSERT

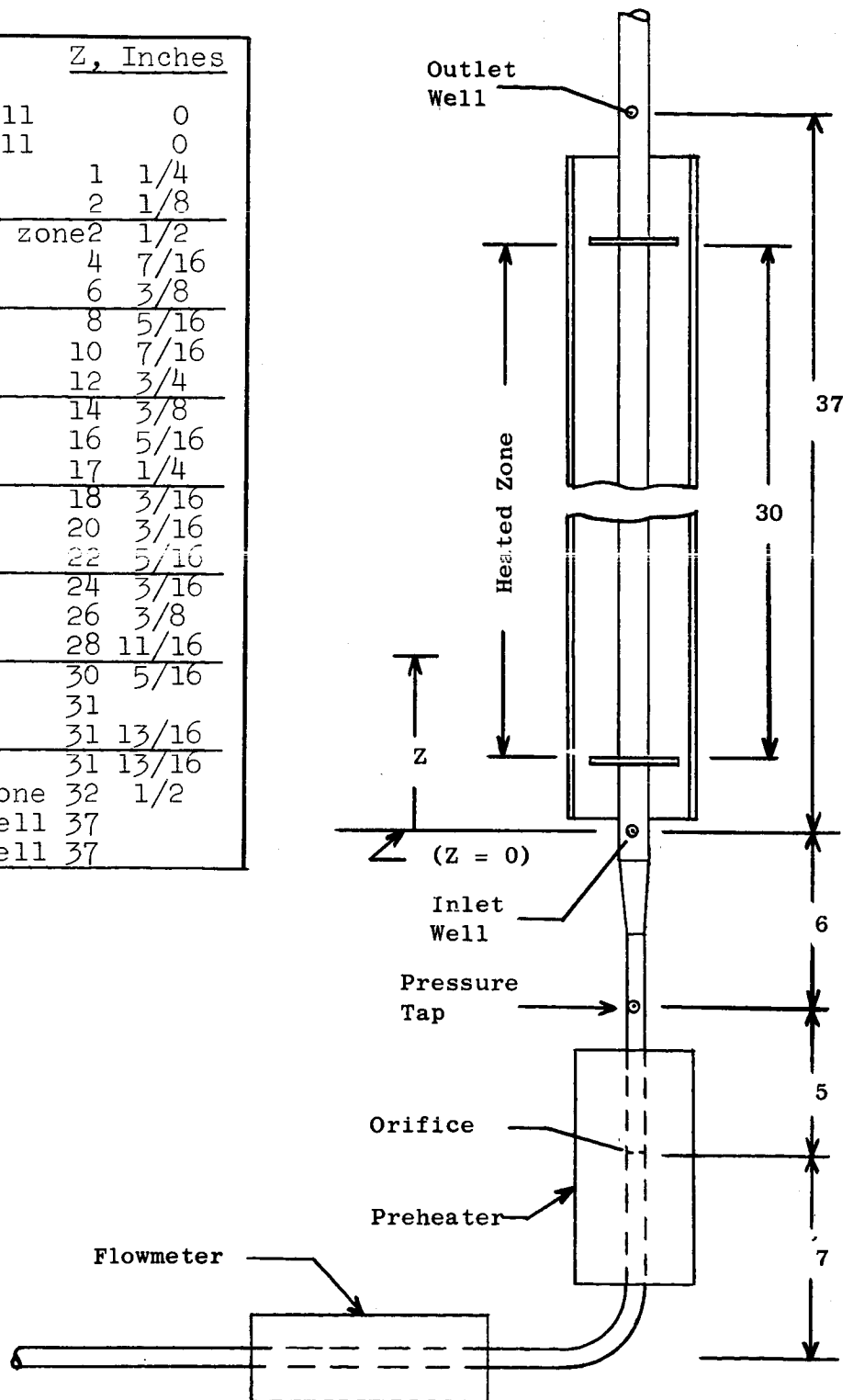
	660	662	672	680
	HCOSTU	HCOSTD	WA	QA
1	8.9895+02	8.8971+02	0.	0.
2	9.2386+02	9.1420+02	0.	0.
3	9.1613+02	9.0773+02	0.	0.
4	9.3167+02	9.2285+02	0.	0.
5	9.4343+02	9.3461+02	0.	-0.
6	9.4183+02	9.3469+02	0.	-0.
7	1.0111+03	1.0031+03	0.	-0.
8	1.0271+03	1.0192+03	0.	-0.
9	1.0774+03	1.0698+03	0.	-0.
10	1.0909+03	1.0845+03	0.	-0.
11	1.0297+03	1.0217+03	0.	-0.
12	1.0399+03	1.0320+03	0.	-0.
13	1.1806+03	1.1738+03	0.	-0.
14	1.1885+03	1.1815+03	0.	-0.
15	1.1252+03	1.1093+03	0.	-0.
16	1.1152+03	1.1006+03	0.	-0.
17	1.1193+03	1.1014+03	0.	-0.
18	1.3917+03	1.3878+03	0.	-0.
19	1.3769+03	1.3725+03	0.	-0.
20	1.3449+03	1.3392+03	0.	-0.
21	1.3376+03	1.3267+03	0.	-0.
22	1.5676+03	1.5659+03	0.	-0.
23	1.5134+03	1.5037+03	0.	-0.
24	1.5049+03	1.4939+03	0.	-0.
25	1.5766+03	1.5752+03	0.	-0.

APPENDIX B

100 KW DATA

Table B-1. 100 KW Loop Instrumentation  
Beginning February 6, 1964

TC	Location	Z, Inches
6	Boiler inlet well	0
7	Boiler inlet well	0
8	Pipe wall temp.	1 1/4
9	Pipe wall temp	2 1/8
	Start of heated zone	2 1/2
10	Boiler wall	4 7/16
11	Boiler wall	6 3/8
12	Boiler wall	8 5/16
13	Boiler wall	10 7/16
14	Boiler wall	12 3/4
15	Boiler wall	14 3/8
16	Boiler wall	16 5/16
17	Boiler wall	17 1/4
18	Boiler wall	18 3/16
19	Boiler wall	20 3/16
20	Boiler wall	22 5/16
21	Boiler wall	24 3/16
22	Boiler wall	26 3/8
23	Boiler wall	28 11/16
24	Boiler wall	30 5/16
25	Boiler wall	31
26	Boiler wall	31 13/16
27	Boiler wall	31 13/16
	End of heated zone	32 1/2
30	Boiler outlet well	37
31	Boiler outlet well	37



Schematic Representation of the 100 KW Test Section Showing  
Thermocouple Locations.

Table B-2  
100 KW Liquid Potassium Data  
Key to Table B-3

Col. No.	Heading	Description
236	Date (e.g., 2.0640 + 03 = 2/6/64)	
237	Time (e.g., 2.3210 + 03 = 2321)	
262	PMPDIS	E. M. Pump Discharge
270	TPH IN	Preheater inlet temperature, °F
278	TPH IN	Preheater inlet temperature, °F
286	TWO 0	Pipe wall temperature at orifice
294	TB IN	Fluid temperature at boiler inlet, °F
302	TB IN	Fluid temperature at boiler inlet, °F
310	TWO 8	Outside wall temperature at 8, °F
318	TWO 9	Outside wall temperature at 9, °F
326	TWO 10	Outside wall temperature at 10, °F
334	TWO 11	Outside wall temperature at 11, °F
342	TWO 12	Outside wall temperature at 12, °F
350	TWO 13	Outside wall temperature at 13, °F
358	TWO 14	Outside wall temperature at 14, °F
366	TWO 15	Outside wall temperature at 15, °F
374	TWO 16	Outside wall temperature at 16, °F
382	TWO 17	Outside wall temperature at 17, °F
390	TWO 18	Outside wall temperature at 18, °F
398	TWO 19	Outside wall temperature at 19, °F
406	TWO 20	Outside wall temperature at 20, °F
414	TWO 21	Outside wall temperature at 21, °F
422	TWO 22	Outside wall temperature at 22, °F
430	TWO 23	Outside wall temperature at 23, °F
438	TWO 24	Outside wall temperature at 24, °F
446	TWO 25	Outside wall temperature at 25, °F
454	TWO 26	Outside wall temperature at 26, °F
462	TWO 27	Outside wall temperature at 27, °F
470	TB OUT	Fluid temperature at boiler outlet, °F
478	TB OUT	Fluid temperature at boiler outlet, °F
509	CND IN	Condenser inlet temperature, °F
516	CND 37	Condenser temperature at 37, °F
523	CND 38	Condenser temperature at 38, °F
530	CND 39	Condenser temperature at 39, °F
537	CND 40	Condenser temperature at 40, °F
544	CND 41	Condenser temperature at 41, °F
551	CND 42	Condenser temperature at 42, °F
558	CND 43	Condenser temperature at 43, °F
565	CND 44	Condenser temperature at 44, °F
572	CND 45	Condenser temperature at 45, °F
579	CND 46	Condenser temperature at 46, °F
586	CND 47	Condenser temperature at 47, °F
593	CNDDIS	Condenser outlet temperature, °F
600	PUMPIN	E. M. Pump Inlet Temperature, °F



Table B-2 (Continued)

<u>Col. No.</u>	<u>Heading</u>	<u>Description</u>
607	TRADTR	Radiation Case Temperature, °F
614	TRADTL	Radiation Case Temperature, °F
621	TRADMR	Radiation Case Temperature, °F
628	TRADML	Radiation Case Temperature, °F
635	TRADBR	Radiation Case Temperature, °F
642	TRADBL	Radiation Case Temperature, °F
663	PH CASE	Preheater Case Temperature, °F
799	QN PH	Net Preheater Power, KW
819	QN B	Net Boiler Power, KW
823	Q/A	Boiler heat flux, Btu/hr-ft <sup>2</sup>
839	FLOW	Flow rate, lb/sec
842	G	Mass velocity, lb/hr-ft <sup>2</sup>

Note: If the values in any column are not printed out a thermocouple malfunction is indicated.

TABLE B-3. 100 KW LIQUID POTASSIUM DATA FOR THE PERIOD  
FEBRUARY 6, 1964 TO APRIL 6, 1964

100 KW LIQUID POTASSIUM DATA FOR 0.742 I.D. TUBE

	236	237	262	270	278	286
	DATE	TIME	PMPDIS	TPH IN	TPH IN	TWO O
1	2.0640+03	2.3210+03	1.2501+03	1.2195+03	1.2360+03	1.2707+03
2	2.0740+03	4.2200+02	9.8608+02	9.8915+02	9.7652+02	1.0141+03
3	2.0740+03	6.1500+02	1.1372+03	1.1271+03	1.1252+03	1.1607+03
4	2.1040+03	2.1300+03	1.3059+03	1.2899+03	1.2896+03	1.3259+03
5	2.1140+03	3.5000+02	9.3032+02	9.2090+02	9.2966+02	9.6302+02
6	2.1140+03	6.1500+02	1.1581+03	1.1440+03	1.1455+03	1.1832+03
7	2.1140+03	2.2200+03	1.0877+03	1.0581+03	1.0720+03	1.1229+03
8	2.1240+03	3.2500+02	7.4339+02	7.3433+02	7.3455+02	7.8834+02
9	2.1240+03	6.1500+02	5.5939+02	5.5378+02	5.5378+02	6.1670+02
10	2.1240+03	6.3500+02	9.7093+02	9.5679+02	9.5801+02	1.0102+03
11	2.1240+03	2.1000+03	9.1100+02	8.9843+02	8.9821+02	9.6204+02
12	2.1340+03	2.0200+03	5.8541+02	5.8424+02	5.8430+02	6.5528+02
13	2.1340+03	2.3200+03	8.1296+02	8.0240+02	8.0218+02	8.7227+02
14	2.1440+03	4.2000+02	1.1465+03	1.1318+03	1.1332+03	1.1766+03
15	2.1440+03	1.9550+03	1.2094+03	1.1772+03	1.1942+03	1.2351+03
16	2.1840+03	2.1000+03	8.2064+02	8.1279+02	8.1282+02	8.5789+02
17	2.1940+03	2.5000+02	1.1367+03	1.1240+03	1.1238+03	1.1621+03
18	2.1940+03	7.2800+02	1.2424+03	1.2248+03	1.2262+03	1.2654+03
19	2.2440+03	2.0000+03	1.1287+03	1.1143+03	1.1142+03	1.1609+03
20	2.2440+03	2.3150+03	7.4050+02	7.3440+02	7.3406+02	7.8825+02
21	2.2540+03	5.1000+02	1.0162+03	1.0037+03	1.0043+03	1.0540+03
22	2.2540+03	1.9550+03	1.0180+03	1.0028+03	1.0035+03	1.0630+03
23	2.2540+03	2.3200+03	6.8614+02	6.7953+02	6.7929+02	7.4122+02
24	2.2640+03	6.1000+02	9.2917+02	9.1657+02	9.1709+02	9.7463+02
25	2.2640+03	1.9000+03	1.2574+03	1.2415+03	1.2415+03	1.2817+03
26	2.2640+03	2.3000+03	8.5231+02	8.4487+02	8.4495+02	8.8949+02
27	2.2740+03	4.1000+02	1.1299+03	1.1167+03	1.1174+03	1.1579+03
28	2.2740+03	2.0200+03	7.6956+02	7.6350+02	7.6360+02	8.0907+02
29	2.2740+03	2.3400+03	8.4222+02	8.3458+02	8.3496+02	8.8010+02
30	2.2840+03	4.0500+02	9.4046+02	9.3084+02	9.3137+02	9.7503+02
31	2.2840+03	2.1000+03	1.0053+03	9.9429+02	9.9473+02	1.0396+03
32	3.0940+03	1.8100+03	1.0653+03	1.0536+03	1.0541+03	1.0978+03
33	3.0940+03	2.0400+03	1.0899+03	1.0771+03	1.0779+03	1.1202+03
34	3.0940+03	2.3450+03	1.1045+03	1.0915+03	1.0921+03	1.1335+03
35	3.1040+03	2.3200+02	1.1352+03	1.1217+03	1.1225+03	1.1637+03
36	3.1040+03	5.2000+02	1.1408+03	1.1272+03	1.1278+03	1.1690+03
37	3.1240+03	2.0300+03	1.0884+03	1.0758+03	1.0766+03	1.1188+03
38	3.1240+03	2.3400+03	1.0993+03	1.0863+03	1.0869+03	1.1289+03
39	3.1340+03	3.1600+02	1.1203+03	1.1071+03	1.1078+03	1.1487+03
40	3.1340+03	5.4400+02	1.1316+03	1.1175+03	1.1183+03	1.1594+03

100 KW LIQUID POTASSIUM DATA FOR 0.742 I.D. TUBE

	294	302	310	318	326	334
	TB IN	TB IN	TWO 8	TWO 9	TWO 10	TWO 11
1	1.2737+03	1.2627+03	1.3042+03	1.3206+03	1.3798+03	1.4146+03
2	1.0044+03	1.0022+03	1.0171+03	1.0199+03	1.0347+03	1.0434+03
3	1.1602+03	1.1519+03	1.1790+03	1.1894+03	1.2277+03	1.2507+03
4	1.3301+03	1.3156+03	1.3576+03	1.3777+03	1.4420+03	1.4716+03
5	9.5070+02	9.4752+02	9.6232+02	9.6553+02	9.7543+02	9.8087+02
6	1.1823+03	1.1698+03	1.1994+03	1.2123+03	1.2510+03	1.2701+03
7	1.1350+03	1.1206+03	1.1632+03	1.1888+03	1.2748+03	1.3224+03
8	7.8564+02	7.8006+02	7.9528+02	7.9828+02	8.0774+02	8.1279+02
9	6.2096+02	6.1896+02	6.2865+02	6.3030+02	6.3290+02	6.3547+02
10	1.0188+03	1.0025+03	1.0307+03	1.0459+03	1.0940+03	1.1196+03
11	9.9013+02	9.6930+02	1.0099+03	1.0420+03	1.1377+03	1.1944+03
12	6.6185+02	6.5895+02	6.6940+02	6.7293+02	6.8149+02	6.8697+02
13	8.8899+02	8.7398+02	9.0092+02	9.1742+02	9.7082+02	1.0028+03
14	1.1895+03	1.1702+03	1.2151+03	1.2382+03	1.3128+03	1.3642+03
15	1.2431+03	1.2272+03	1.2781+03	1.2997+03	1.3762+03	1.4143+03
16	8.4219+02	8.4229+02	8.5556+02	8.5779+02	8.6331+02	8.6627+02
17	1.1599+03	1.1503+03	1.1806+03	1.1934+03	1.2361+03	1.2546+03
18	1.2757+03	1.2569+03	1.3060+03	1.3314+03	1.4044+03	1.4337+03
19	1.1747+03	1.1556+03	1.2013+03	1.2312+03	1.3180+03	1.3563+03
20	7.7670+02	7.7901+02	7.8511+02	7.8742+02	7.9312+02	7.9600+02
21	1.0613+03	1.0458+03	1.0716+03	1.0868+03	1.1316+03	1.1511+03
22	1.1020+03	1.0628+03	1.0869+03	1.1391+03	1.2341+03	1.2809+03
23	7.4167+02	7.3842+02	7.4143+02	7.4890+02	7.5909+02	7.6397+02
24	9.9385+02	9.7048+02	9.8647+02	1.0124+03	1.0654+03	1.0894+03
25	1.2880+03	1.2715+03	1.3185+03	1.3432+03	1.4169+03	1.4430+03
26	8.7531+02	8.7796+02	8.8512+02	8.8757+02	8.9501+02	8.9756+02
27	1.1569+03	1.1467+03	1.1734+03	1.1872+03	1.2292+03	1.2444+03
28	7.9028+02	7.9848+02	8.0305+02	8.0394+02	8.0599+02	8.0716+02
29	8.6370+02	8.6857+02	8.7538+02	8.7776+02	8.8541+02	8.8851+02
30	9.6384+02	9.6318+02	9.7402+02	9.7927+02	9.9536+02	1.0016+03
31	1.0318+03	1.0275+03	1.0439+03	1.0514+03	1.0768+03	1.0850+03
32	1.0855+03	1.0852+03	1.1018+03	1.1104+03	1.1338+03	1.1502+03
33	1.1101+03	1.1085+03	1.1267+03	1.1371+03	1.1653+03	1.1841+03
34	1.1246+03	1.1222+03	1.1419+03	1.1538+03	1.1845+03	1.2049+03
35	1.1560+03	1.1521+03	1.1748+03	1.1879+03	1.2246+03	1.2469+03
36	1.1622+03	1.1578+03	1.1813+03	1.1953+03	1.2338+03	1.2571+03
37	1.1103+03	1.1085+03	1.1268+03	1.1381+03	1.1662+03	1.1836+03
38	1.1227+03	1.1196+03	1.1396+03	1.1523+03	1.1856+03	1.2052+03
39	1.1446+03	1.1403+03	1.1631+03	1.1776+03	1.2156+03	1.2371+03
40	1.1560+03	1.1508+03	1.1747+03	1.1905+03	1.2306+03	1.2540+03

## 100 KW LIQUID POTASSIUM DATA FOR 0.742 I.D. TUBE

	342	350	358	366	374	382
	TWO 12	TWO 13	TWO 14	TWO 15	TWO 16	TWO 17
1	1.4404+03	1.4709+03	1.5123+03	1.5317+03	1.5633+03	1.5842+03
2	1.0514+03	1.0592+03	1.0697+03	1.0766+03	1.0825+03	1.0893+03
3	1.2687+03	1.2892+03	1.3182+03	1.3323+03	1.3500+03	1.3736+03
4	1.4933+03	1.5252+03	1.5691+03	1.5873+03	1.6163+03	1.6409+03
5	9.8574+02	9.9078+02	9.9694+02	1.0015+03	1.0073+03	1.0122+03
6	1.2838+03	1.3030+03	1.3304+03	1.3414+03	1.3588+03	1.3822+03
7	1.3583+03	1.4048+03	1.4627+03	1.4903+03	1.5332+03	1.5618+03
8	8.1866+02	8.2370+02	8.3030+02	8.3445+02	8.4077+02	8.4541+02
9	6.3833+02	6.4074+02	6.4329+02	6.4518+02	6.4866+02	6.8651+02
10	1.1400+03	1.1672+03	1.2001+03	1.2166+03	1.2429+03	1.2652+03
11	1.2418+03	1.3012+03	1.3689+03	1.4050+03	1.4572+03	1.4891+03
12	6.9181+02	6.9782+02	7.0335+02	7.0826+02	7.1410+02	7.1658+02
13	1.0283+03	1.0634+03	1.1013+03	1.1216+03	1.1490+03	1.1666+03
14	1.3785+03	1.4146+03	1.4647+03	1.4867+03	1.5202+03	1.5483+03
15	1.4396+03	1.4751+03	1.5220+03	1.5438+03	1.5773+03	1.6017+03
16	8.6980+02	8.7358+02	8.7663+02	8.7867+02	8.8353+02	8.8693+02
17	1.2704+03	1.2934+03	1.3197+03	1.3313+03	1.3511+03	1.3659+03
18	1.4606+03	1.4994+03	1.5459+03	1.5669+03	1.6010+03	1.6251+03
19	1.3889+03	1.4370+03	1.4914+03	1.5184+03	1.5562+03	1.5835+03
20	7.9966+02	8.0380+02	8.0492+02	8.0799+02	8.1223+02	8.1301+02
21	1.1691+03	1.1954+03	1.2250+03	1.2402+03	1.2599+03	1.2763+03
22	1.3212+03	1.3764+03	1.4383+03	1.4713+03	1.5151+03	1.5451+03
23	7.6955+02	7.7495+02	7.7985+02	7.8455+02	7.9011+02	7.9225+02
24	1.1108+03	1.1402+03	1.1740+03	1.1925+03	1.2168+03	1.2337+03
25	1.4676+03	1.5032+03	1.5485+03	1.5690+03	1.5986+03	1.6243+03
26	9.0117+02	9.0474+02	9.0672+02	9.1039+02	9.1492+02	9.1713+02
27	1.2597+03	1.2821+03	1.3070+03	1.3203+03	1.3362+03	1.3518+03
28	8.0969+02	8.1124+02	8.1017+02	8.1056+02	8.1367+02	8.1515+02
29	8.9202+02	8.9558+02	8.9823+02	9.0110+02	9.0534+02	9.0865+02
30	1.0087+03	1.0165+03	1.0240+03	1.0290+03	1.0355+03	1.0425+03
31	1.0948+03	1.1058+03	1.1181+03	1.1248+03	1.1340+03	1.1436+03
32	1.1651+03	1.1803+03	1.1938+03	1.2003+03	1.2112+03	1.2189+03
33	1.2015+03	1.2203+03	1.2368+03	1.2444+03	1.2571+03	1.2675+03
34	1.2240+03	4.0000+03	1.2625+03	1.2707+03	1.2841+03	1.2951+03
35	1.2695+03	1.2926+03	1.3116+03	1.3205+03	1.3358+03	1.3484+03
36	1.2793+03	1.3041+03	1.3241+03	1.3333+03	1.3495+03	1.3629+03
37	1.1997+03	1.2200+03	1.2331+03	1.2415+03	1.2541+03	1.2649+03
38	1.2236+03	1.2467+03	1.2624+03	1.2720+03	1.2865+03	1.2987+03
39	1.2578+03	1.2838+03	1.3021+03	1.3118+03	1.3282+03	1.3418+03
40	1.2754+03	1.3027+03	1.3219+03	1.3327+03	1.3491+03	1.3639+03

# 100 KW LIQUID POTASSIUM DATA FOR 0.742 I.D. TUBE

	390	398	406	414	422	430
	TWO 18	TWO 19	TWO 20	TWO 21	TWO 22	TWO 23
1		1.6406+03	1.6605+03			
2		1.1056+03	1.1112+03			
3		1.4124+03	1.4265+03			
4		1.6930+03	1.7133+03			
5		1.0221+03	1.0265+03			
6		1.4171+03	1.4299+03			
7		1.6334+03	1.6688+03			
8		8.5645+02	8.5920+02			
9		6.5601+02	6.5751+02			
10		1.3091+03	1.3301+03			
11		1.5711+03	1.6160+03			
12		7.2649+02	7.2989+02			
13		1.2139+03	1.2407+03			
14		1.6085+03	1.6341+03			
15		1.6607+03	1.6847+03			
16		8.9147+02	8.9375+02			
17		1.4019+03	1.4154+03			
18		1.6848+03	1.7094+03			
19	1.6055+03	1.6496+03	1.6808+03		1.7586+03	1.7937+03
20	8.1322+02	8.1599+02	8.1893+02		8.2646+02	8.2751+02
21	1.2883+03	1.3134+03	1.3302+03		1.3748+03	1.3938+03
22	1.5697+03	1.6192+03	1.6573+03		1.7455+03	1.7857+03
23	7.9379+02	7.9939+02	8.0385+02		8.6788+02	8.4540+02
24	1.2464+03	1.2760+03	1.2970+03		1.5661+03	1.3711+03
25	1.6403+03	1.6764+03	1.6968+03		1.7610+03	1.7893+03
26	9.1861+02	9.2167+02	9.2442+02		9.3559+02	9.3662+02
27	1.3615+03	1.3837+03	1.3955+03		1.4342+03	1.4489+03
28	8.1532+02	8.1553+02	8.1686+02		7.6791+02	7.9104+02
29	9.1021+02	9.1289+02	9.1587+02		9.5731+02	9.3658+02
30	1.0458+03	1.0532+03	1.0588+03		1.1822+03	1.1289+03
31	1.1493+03	1.1608+03	1.1684+03		1.3285+03	1.2472+03
32	1.2282+03	1.2483+03	1.2492+03	1.2572+03	1.2690+03	1.2823+03
33	1.2775+03	1.3005+03	1.3022+03	1.3117+03	1.3268+03	1.3414+03
34	1.3069+03	1.3317+03	1.3343+03	1.3448+03	1.3609+03	1.3780+03
35	1.3606+03	1.3881+03	1.3924+03	1.4038+03	1.4225+03	1.4420+03
36	1.3762+03	1.4039+03	1.4093+03	1.4216+03	1.4414+03	1.4612+03
37	1.2737+03	1.2968+03	1.2993+03	1.3067+03	1.3226+03	1.3367+03
38	1.3082+03	1.3344+03	1.3373+03	1.3462+03	1.3646+03	1.3808+03
39	1.3527+03	1.3809+03	1.3851+03	1.3954+03	1.4164+03	1.4333+03
40	1.3751+03	1.4054+03	1.4102+03	1.4214+03	1.4442+03	1.4628+03

## 100 KW LIQUID POTASSIUM DATA FOR 0.742 I.D. TUBE

	438	446	454	462	470	478
	TWO 24	TWO 25	TWO 26	TWO 27	TB OUT	TB OUT
1	1.7649+03	1.7745+03		1.7785+03	1.7246+03	1.7199+03
2	1.1414+03	1.1437+03		1.1451+03	1.1255+03	1.0967+03
3	1.4965+03	1.5040+03		1.5070+03	1.4620+03	1.4506+03
4	1.8216+03	1.8300+03		1.8337+03	1.7868+03	1.7679+03
5	1.0481+03	1.0498+03		1.0505+03	1.0314+03	9.9780+02
6	1.4984+03	1.5051+03		1.5086+03	1.4732+03	1.4440+03
7	1.8188+03	1.8324+03		1.8376+03	1.7945+03	1.7762+03
8	8.8721+02	8.9480+02		9.0203+02	8.8831+02	8.6761+02
9	6.6706+02	6.6754+02		6.6760+02	6.5570+02	6.3931+02
10	1.4232+03	1.4329+03		1.4380+03	1.4068+03	1.3797+03
11	1.7899+03	1.8058+03		1.8137+03	1.7719+03	1.7520+03
12	7.5066+02	7.5313+02		7.5317+02	7.4268+02	7.2104+02
13	1.3496+03	1.3607+03		1.3677+03	1.3372+03	1.3069+03
14	1.7614+03	1.7743+03		1.7807+03	1.7351+03	1.7121+03
15	1.8101+03	1.8219+03		1.8283+03	1.7817+03	1.7609+03
16	9.0710+02	9.0805+02		9.0744+02	8.8846+02	8.6412+02
17	1.4890+03	1.4956+03		1.4987+03	1.4623+03	1.4374+03
18	1.8275+03	1.8334+03		1.8433+03	1.7945+03	1.7783+03
19	1.8160+03	1.8302+03	1.8351+03	1.8371+03	1.7835+03	1.7850+03
20	8.3126+02	8.3170+02	8.3101+02	8.3213+02	8.1391+02	8.1376+02
21	1.4080+03	1.4163+03	1.4190+03	1.4218+03	1.3853+03	1.3809+03
22	1.8108+03	1.8253+03	1.8316+03	1.8330+03	1.7885+03	1.7858+03
23	8.2385+02	8.2584+02	8.2535+02	8.2648+02	8.1095+02	8.0995+02
24	1.3875+03	1.3968+03	1.4004+03	1.4028+03	1.3690+03	1.3652+03
25	1.8058+03	1.8165+03	1.8207+03	1.8225+03	1.7711+03	1.7694+03
26	9.3633+02	9.3785+02	9.3662+02	9.3795+02	9.1942+02	9.1708+02
27	1.4602+03	1.4675+03	1.4687+03	1.4705+03	1.4341+03	1.4308+03
28	8.2116+02	8.2074+02	8.2050+02	8.2096+02	8.0769+02	7.9744+02
29	9.2750+02	9.2973+02	9.2837+02	9.2940+02	9.1255+02	9.0498+02
30	1.0838+03	1.0886+03	1.0874+03	1.0887+03	1.0682+03	1.0593+03
31	1.2066+03	1.2116+03	1.2113+03	1.2126+03	1.1890+03	1.1818+03
32	1.2951+03	1.2994+03	1.2990+03	1.3002+03	1.2757+03	1.2707+03
33	1.3545+03	1.3592+03	1.3592+03	1.3604+03	1.3342+03	1.3294+03
34	1.3920+03	1.3966+03	1.3972+03	1.3982+03	1.3714+03	1.3666+03
35	1.4569+03	1.4628+03	1.4640+03	1.4648+03	1.4353+03	1.4305+03
36	1.4768+03	1.4828+03	1.4834+03	1.4844+03	1.4546+03	1.4503+03
37	1.3497+03	1.3531+03	1.3546+03	1.3550+03	1.3288+03	1.3253+03
38	1.3948+03	1.3992+03	1.4010+03	1.4019+03	1.3746+03	1.3715+03
39	1.4454+03	1.4496+03	1.4509+03	1.4512+03	1.4213+03	1.4185+03
40	1.4787+03	1.4840+03	1.4855+03	1.4864+03	1.4567+03	1.4540+03

100 KW LIQUID POTASSIUM DATA FOR 0.742 I.D. TUBE

	509	516	523	530	537	544
	CND IN	CND 37	CND 38	CND 39	CND 40	CND 41
1	1.7082+03		1.5775+03	1.0524+03	1.4748+03	1.4344+03
2	1.1219+03		1.0771+03	7.6381+02	1.0393+03	1.0231+03
3	1.4571+03		1.3681+03		1.2953+03	1.2655+03
4	1.7584+03	1.7194+03	1.6188+03	1.0516+03	1.5151+03	1.4741+03
5	1.0282+03	1.0157+03	9.9024+02	6.8000+02	9.6100+02	9.4770+02
6	1.4538+03	1.4278+03	1.3666+03	8.9443+02	1.2984+03	1.2692+03
7	1.7474+03	1.6889+03	1.5426+03		1.4006+03	1.3478+03
8	8.6595+02	8.5406+02	8.2773+02		7.9780+02	7.8469+02
9	6.5419+02	6.4761+02	6.3245+02		6.1489+02	6.0582+02
10	1.3800+03	1.3455+03	1.2655+03		1.1763+03	1.1420+03
11	1.7075+03	1.6339+03	1.4591+03		1.2957+03	1.2378+03
12	7.4013+02	7.2917+02	7.0562+02		6.7855+02	6.6632+02
13	1.3092+03	1.2688+03	1.1757+03		1.0811+03	1.0431+03
14	1.6988+03		1.5478+03		1.4366+03	1.3925+03
15	1.7482+03	1.7052+03	1.5997+03		1.4882+03	1.4444+03
16	8.9133+02		8.6215+02		8.3893+02	8.2829+02
17	1.4485+03	1.4213+03	1.3593+03		1.2897+03	1.2598+03
18	1.7623+03		1.6105+03		1.4986+03	1.4541+03
19			1.5739+03		1.4463+03	1.3978+03
20			7.9228+02		7.7178+02	7.6285+02
21	9.5368+02		1.2805+03	8.4777+02	1.2072+03	1.1768+03
22			1.5288+03		1.3814+03	1.3275+03
23			7.7893+02		7.5318+02	7.4211+02
24			1.2504+03		1.1607+03	1.1280+03
25			1.6033+03		1.4980+03	1.4570+03
26			8.9251+02		8.6957+02	8.5919+02
27			1.3403+03		1.2751+03	1.2471+03
28			7.8703+02		7.6985+02	7.6190+02
29			8.8358+02		8.6046+02	8.4986+02
30			1.0230+03		9.9034+02	9.7562+02
31			1.1302+03		1.0891+03	1.0706+03
32	1.2624+03	1.2480+03	1.2012+03	1.1746+03	1.1480+03	1.1306+03
33	1.3192+03	1.3028+03	1.2506+03	1.2206+03	1.1901+03	1.1705+03
34	1.3546+03	1.3375+03	1.2815+03	1.2496+03	1.2169+03	1.1954+03
35	1.4165+03	1.3974+03	1.3350+03	1.3001+03	1.2644+03	1.2408+03
36	1.4343+03	1.4147+03	1.3493+03	1.3136+03	1.2767+03	1.2522+03
37	1.3144+03	1.2976+03	1.2466+03	1.2161+03	1.1856+03	1.1671+03
38	1.3580+03	1.3393+03	1.2827+03	1.2495+03	1.2158+03	1.1949+03
39	1.4029+03	1.3832+03	1.3216+03	1.2874+03	1.2518+03	1.2308+03
40	1.4374+03	1.4157+03	1.3491+03	1.3127+03	1.2745+03	1.2504+03

100 KW LIQUID POTASSIUM DATA FOR 0.742 I.D. TUBE

	551	558	565	572	579	586
	CND 42	CND 43	CND 44	CND 45	CND 46	CND 47
1	1.3943+03	1.3575+03	1.3240+03	1.2962+03	1.2665+03	1.2402+03
2	1.0065+03	9.9071+02	9.7524+02	9.6336+02	9.4928+02	9.3720+02
3	1.2353+03	1.2070+03	1.1811+03	1.1601+03	1.3220+03	1.3017+03
4	1.4343+03	1.3968+03		1.3338+03	1.3037+03	1.2768+03
5	9.3439+02	9.2090+02		8.9695+02	8.8462+02	8.7386+02
6	1.2399+03	1.2120+03		1.1654+03	1.1430+03	1.1228+03
7	1.2978+03	1.2535+03		1.1817+03	1.1497+03	1.1227+03
8	7.7105+02	7.5827+02		7.3561+02	7.2414+02	7.1414+02
9	5.9610+02	5.8631+02		5.6984+02	5.6187+02	5.5525+02
10	1.1089+03	1.0783+03		1.0263+03	1.0013+03	9.7955+02
11	1.1842+03	1.1395+03		1.0691+03	1.0366+03	1.0086+03
12	6.5395+02	6.4182+02		6.2111+02	6.1071+02	6.0198+02
13	1.0061+03	9.7388+02		9.2266+02	8.9797+02	8.7658+02
14	1.3498+03	1.3111+03		1.2459+03	1.2149+03	1.1872+03
15	1.4015+03	1.3622+03		1.2964+03	1.2652+03	1.2377+03
16	8.1760+02	8.0679+02		7.8735+02	7.7755+02	7.6883+02
17	1.2307+03	1.2023+03		1.1550+03	1.1324+03	1.1120+03
18	1.4117+03	1.3721+03		1.3059+03	1.2743+03	1.2455+03
19	1.3518+03	1.3102+03	1.2722+03	1.2402+03	1.2068+03	1.1788+03
20	7.5364+02	7.4387+02	7.3472+02	7.2689+02	7.1748+02	7.1099+02
21	1.1483+03	1.1211+03	1.0966+03	1.0752+03	1.0520+03	1.0316+03
22	1.2772+03	1.2322+03	1.1926+03	1.1604+03	1.1278+03	1.1004+03
23	7.3086+02	7.1949+02	7.0900+02	6.9958+02	6.8898+02	6.8114+02
24	1.0969+03	1.0668+03	1.0394+03	1.0157+03	9.9134+02	9.7095+02
25	1.4173+03	1.3791+03	1.3445+03	1.3152+03	1.2843+03	1.2572+03
26	8.4863+02	8.3750+02	8.2733+02	8.1823+02	8.0781+02	7.9964+02
27	1.2192+03	1.1924+03	1.1681+03	1.1479+03	1.1256+03	1.1067+03
28	7.5397+02	7.4549+02	7.3757+02	7.3028+02	7.2240+02	7.1607+02
29	8.3929+02	8.2840+02	8.1810+02	8.0897+02	7.9888+02	7.8993+02
30	9.6143+02	9.4668+02	9.3309+02	9.2102+02	9.0782+02	8.9596+02
31	1.0517+03	1.0330+03	1.0156+03	1.0004+03	9.8434+02	9.7036+02
32	1.1099+03	1.0891+03	1.0694+03	1.0521+03	1.0331+03	1.0168+03
33	1.1471+03	1.1247+03	1.1036+03	1.0850+03	1.1196+03	1.0470+03
34	1.1709+03	1.1468+03	1.1246+03	1.1056+03	1.0847+03	1.0663+03
35	1.2133+03	1.1867+03	1.1621+03	1.1413+03	1.1191+03	1.0998+03
36	1.2242+03	1.1967+03	1.1713+03	1.1501+03	1.1275+03	1.1080+03
37	1.1445+03	1.1226+03	1.1019+03	1.0837+03	1.0638+03	1.0463+03
38	1.1703+03	1.1462+03	1.1241+03	1.1050+03	1.0840+03	1.0654+03
39	1.2045+03	1.1782+03	1.1540+03	1.1336+03	1.1117+03	1.0924+03
40	1.2223+03	1.1946+03	1.1692+03	1.1481+03	1.1255+03	1.1059+03



100 KW LIQUID POTASSIUM DATA FOR 0.742 I.D. TUBE

	593	600	607	614	621	628
	CNDDIS	PUMPIN	TRADTR	TRADTL	TRADMR	TRADML
1	1.2035+03	1.1236+03	1.0344+03	1.0342+03	1.0052+03	1.0282+03
2	9.1937+02	8.7998+02	6.8081+02	6.8090+02	6.8019+02	6.6627+02
3	1.0894+03	1.0261+03	8.9531+02	8.9511+02	8.7030+02	8.8294+02
4	1.2382+03	1.1549+03	1.0519+03	1.0518+03	1.0258+03	1.0565+03
5	8.5773+02	8.2514+02	5.8941+02	5.8948+02	5.8826+02	5.8013+02
6	1.0949+03	1.0327+03	8.7914+02	8.7887+02	8.5221+02	8.7598+02
7	1.0852+03	1.0005+03	9.8608+02	9.8596+02	9.5866+02	9.8271+02
8	6.9952+02	6.7030+02	4.8504+02	4.8503+02	4.9987+02	4.7423+02
9	5.4547+02	5.2662+02	3.6021+02	3.6016+02	3.8083+02	3.5401+02
10	9.5085+02	8.8848+02	8.0127+02	8.0099+02	7.7812+02	7.9422+02
11	9.7306+02	8.9182+02	9.1001+02	9.0972+02	8.8559+02	9.0390+02
12	5.8992+02	5.6666+02	4.0869+02	4.0881+02	4.3629+02	4.0188+02
13	8.4840+02	7.8723+02	7.2216+02	7.2197+02	7.0595+02	7.1517+02
14	1.1508+03	1.0705+03	9.5279+02	9.5250+02	9.3453+02	9.5489+02
15	1.1992+03	1.1174+03	9.7320+02	9.7300+02	9.6059+02	9.7699+02
16	7.5575+02	7.3162+02	4.5532+02	4.5531+02	4.8995+02	4.4623+02
17	1.0831+03	1.0221+03	8.2039+02	8.1820+02	8.1708+02	8.1305+02
18	1.2065+03	1.1244+03	9.7560+02	9.7533+02	9.6973+02	9.7102+02
19	1.1393+03	1.0559+03	9.5370+02	9.5381+02	9.4026+02	9.1982+02
20	6.9806+02	6.7589+02	4.2530+02	4.2566+02	4.3304+02	4.0961+02
21	1.0025+03	9.4350+02	8.6981+02	7.7840+02	7.6503+02	7.4670+02
22	1.0615+03	9.7648+02	9.2894+02	9.2900+02	9.1287+02	8.9135+02
23	6.6746+02	6.4213+02	4.4972+02	4.4998+02	4.5476+02	4.3042+02
24	9.4213+02	8.8163+02	7.6117+02	7.6123+02	7.4575+02	7.2809+02
25	1.2175+03	1.1360+03	9.7406+02	9.7408+02	9.6217+02	9.4026+02
26	7.8580+02	7.6038+02	4.7485+02	4.7499+02	4.8076+02	4.5412+02
27	1.0765+03	1.0191+03	8.0893+02	8.0896+02	7.9668+02	7.7682+02
28	7.0486+02	6.8572+02	3.6215+02	3.6230+02	3.7962+02	3.4977+02
29	7.7680+02	7.5182+02	4.6695+02	4.6697+02	4.7514+02	4.4667+02
30	8.7841+02	8.4398+02	5.8926+02	5.8926+02	5.8741+02	5.6382+02
31	9.4955+02	9.0808+02	6.7583+02	6.7586+02	6.7572+02	6.4739+02
32	9.9276+02	9.4515+02	7.0448+02	6.9554+02	6.9422+02	6.7982+02
33	1.0208+03	9.6891+02	7.3613+02	7.2708+02	7.2819+02	7.1289+02
34	1.0390+03	9.8428+02	7.5843+02	7.4878+02	7.5022+02	7.3427+02
35	1.0708+03	1.0113+03	7.9142+02	7.8144+02	7.8433+02	7.6718+02
36	1.0785+03	1.0178+03	8.0305+02	7.9301+02	7.9649+02	7.7865+02
37	1.0199+03	9.6760+02	7.2513+02	7.2512+02	7.2352+02	7.1006+02
38	1.0378+03	9.8111+02	7.5256+02	7.5257+02	7.5179+02	7.3724+02
39	1.0633+03	1.0027+03	7.7861+02	7.7861+02	7.7960+02	7.6405+02
40	1.0763+03	1.0137+03	7.9669+02	7.9670+02	7.9818+02	7.8192+02

100 KW LIQUID POTASSIUM DATA FOR 0.742 I.D. TUBE

	635	642	663	799	819	823
	TRADBR	TRADBL	PHCASE	QN PH	QN B	Q/A
1	9.7412+02	9.9163+02	7.9755+02	1.0197+00	8.2574+00	5.8021+04
2	6.7734+02	6.6514+02	7.2917+02	9.1750-01	2.0322+00	1.4279+04
3	8.4938+02	8.6172+02	7.6180+02	8.2540-01	5.2712+00	3.7039+04
4	9.9805+02	1.0112+03	8.1368+02	1.0280+00	8.9585+00	6.2948+04
5	5.9898+02	5.8096+02	7.1580+02	9.6300-01	1.3254+00	9.3131+03
6	8.3915+02	8.4941+02	7.6368+02	9.2740-01	5.2096+00	3.6605+04
7	9.3529+02	9.4754+02	7.7851+02	8.9100-01	8.1490+00	5.7260+04
8	5.1296+02	4.8048+02	6.8774+02	9.6320-01	9.4896-01	6.6680+03
9	3.9185+02	3.6496+02	6.6430+02	9.6660-01	6.4480-01	4.5307+03
10	7.7367+02	7.7740+02	7.2971+02	9.4200-01	4.5998+00	3.2321+04
11	8.6706+02	8.7434+02	7.4716+02	9.8100-01	7.3207+00	5.1439+04
12	4.4366+02	4.0913+02	6.8648+02	9.8750-01	8.4266-01	5.9210+03
13	7.0251+02	6.9954+02	7.1951+02	1.0280+00	4.1603+00	2.9233+04
14	9.2613+02	9.2706+02	7.8511+02	9.6300-01	9.1568+00	6.4341+04
15	9.4397+02	9.4367+02	8.0292+02	1.0280+00	1.0386+01	7.2977+04
16	4.9242+02	4.5282+02	7.0083+02	1.0280+00	8.6301-01	6.0640+03
17	8.0940+02	7.9719+02	7.6688+02	9.6650-01	5.8885+00	4.1376+04
18	9.5486+02	9.4380+02	8.0674+02	9.8095-01	1.0294+01	7.2330+04
19	9.3325+02	9.1627+02	7.8253+02	1.0280+00	9.9421+00	6.9859+04
20	4.4902+02	4.2513+02	6.8900+02	1.0280+00	6.6248-01	4.6550+03
21	7.6530+02	7.5012+02	7.4149+02	1.0243+00	5.2014+00	3.6548+04
22	9.0326+02	8.8443+02	7.6998+02	1.0317+00	9.0788+00	6.3793+04
23	4.7272+02	4.4346+02	6.8726+02	1.0280+00	9.0631-01	6.3682+03
24	7.4518+02	7.2959+02	7.3239+02	9.6650-01	4.9954+00	3.5101+04
25	9.5382+02	9.3412+02	8.0385+02	9.9900-01	1.0301+01	7.2378+04
26	5.0083+02	4.6873+02	6.9628+02	9.9180-01	9.8772-01	6.9403+03
27	7.9640+02	7.7976+02	7.6028+02	9.7740-01	5.7246+00	4.0225+04
28	3.9613+02	3.6699+02	6.8477+02	1.0280+00	2.6050-01	1.8305+03
29	4.8951+02	4.6093+02	6.9285+02	1.0095+00	1.0103+00	7.0989+03
30	5.9169+02	5.7284+02	7.1172+02	9.9540-01	2.1134+00	1.4850+04
31	6.8128+02	6.5269+02	7.3012+02	1.0465+00	3.1754+00	2.2312+04
32	6.5600+02	6.5140+02	7.3841+02	9.9900-01	3.6439+00	2.5604+04
33	6.8583+02	6.8168+02	7.4380+02	9.9900-01	4.1517+00	2.9172+04
34	7.0479+02	7.0062+02	7.4690+02	9.9900-01	4.6175+00	3.2445+04
35	7.3452+02	7.3015+02	7.5587+02	9.4780-01	5.0058+00	3.5173+04
36	7.4547+02	7.4083+02	7.5752+02	9.3760-01	5.5424+00	3.8944+04
37	6.8544+02	6.8146+02	7.4280+02	9.8750-01	4.1777+00	2.9355+04
38	7.0981+02	7.0565+02	7.4666+02	9.9678-01	4.6036+00	3.2347+04
39	7.3467+02	7.3034+02	7.5221+02	9.1860-01	5.0346+00	3.5376+04
40	7.5097+02	7.4626+02	7.5582+02	9.4780-01	5.5278+00	3.8841+04

100 KW LIQUID POTASSIUM DATA FOR 0.742 I.D. TUBE

	839	842
	FLOW	G
1	6.2699-02	7.5169+04
2	6.2244-02	7.4623+04
3	6.1756-02	7.4038+04
4	6.6351-02	7.9547+04
5	6.3256-02	7.5836+04
6	6.4414-02	7.7225+04
7	4.0159-02	4.8146+04
8	3.9165-02	4.6954+04
9	2.8668-02	3.4369+04
10	3.9851-02	4.7777+04
11	2.9288-02	3.5113+04
12	2.8537-02	3.4213+04
13	2.8856-02	3.4595+04
14	6.1711-02	7.3985+04
15	6.0473-02	7.2500+04
16	5.9325-02	7.1123+04
17	6.1574-02	7.3820+04
18	5.8979-02	7.0709+04
19	5.0465-02	6.0502+04
20	5.0453-02	6.0487+04
21	5.0820-02	6.0927+04
22	3.8972-02	4.6723+04
23	3.8876-02	4.6607+04
24	3.8850-02	4.6577+04
25	6.5514-02	7.8543+04
26	6.4173-02	7.6936+04
27	6.5220-02	7.8191+04
28	6.4189-02	7.6955+04
29	6.4526-02	7.7359+04
30	6.5021-02	7.7953+04
31	6.4739-02	7.7614+04
32	6.5287-02	7.8272+04
33	6.5159-02	7.8118+04
34	6.4999-02	7.7926+04
35	6.4917-02	7.7827+04
36	6.4721-02	7.7593+04
37	6.5981-02	7.9103+04
38	6.4773-02	7.7655+04
39	6.4896-02	7.7803+04
40	6.4728-02	7.7602+04

# 100 KW LIQUID POTASSIUM DATA FOR 0.742 I.D. TUBE

	236	237	262	270	278	286
	DATE	TIME	PMPDIS	TPH IN	TPH IN	TWO O
1	3.1840+03	2.4000+02	1.0899+03	1.0767+03	1.0776+03	1.1132+03
2	3.1840+03	6.1100+02	1.1043+03	1.0915+03	1.0922+03	1.1271+03
3	3.1940+03	1.2150+03	1.0868+03	1.0741+03	1.0753+03	1.1088+03
4	3.1940+03	1.8450+03	1.1261+03	1.1134+03	1.1138+03	1.1492+03
5	3.1940+03	2.2000+03	1.1418+03	1.1277+03	1.1285+03	1.1641+03
6	3.2040+03	1.2100+02	1.1515+03	1.1373+03	1.1379+03	1.1727+03
7	3.2040+03	5.3300+02	1.1678+03	1.1529+03	1.1535+03	1.1885+03
8	3.2040+03	1.8200+03	8.0790+02	7.9482+02	7.9477+02	8.6680+02
9	3.2040+03	2.0000+03	8.4743+02	8.3329+02	8.3387+02	9.0063+02
10	3.2040+03	2.1400+03	8.8230+02	8.6789+02	8.6842+02	9.3017+02
11	3.2040+03	2.2550+03	9.2009+02	9.0539+02	9.0608+02	9.6331+02
12	3.2140+03	3.2000+01	9.5111+02	9.3649+02	9.3718+02	9.8977+02
13	3.2140+03	2.4800+02	9.8300+02	9.6824+02	9.6874+02	1.0195+03
14	3.2140+03	5.0800+02	1.0124+03	1.0008+03	9.9771+02	1.0471+03
15	3.2140+03	6.3900+02	1.0379+03	1.0226+03	1.0224+03	1.0692+03
16	3.2140+03	1.7500+03	1.0656+03	1.0500+03	1.0504+03	1.0950+03
17	3.2140+03	1.9150+03	1.0962+03	1.0806+03	1.0813+03	1.1229+03
18	3.2140+03	2.0450+03	1.1265+03	1.1107+03	1.1115+03	1.1516+03
19	3.2140+03	2.2500+03	1.1539+03	1.1378+03	1.1386+03	1.1770+03
20	3.2240+03	1.0300+02	1.1806+03	1.1651+03	1.1650+03	1.2017+03
21	3.2240+03	3.1200+02	1.2051+03	1.1892+03	1.1890+03	1.2255+03
22	3.2240+03	4.5800+02	1.2207+03	1.2037+03	1.2036+03	1.2392+03
23	3.2240+03	6.3400+02	1.2478+03	1.2317+03	1.2316+03	1.2660+03
24	3.2240+03	1.8150+03	1.2803+03	1.2623+03	1.2630+03	1.2960+03
25	3.2240+03	1.9500+03	1.3149+03	1.2966+03	1.2975+03	1.3298+03
26	3.2240+03	2.1550+03	1.3267+03	1.3087+03	1.3095+03	1.3403+03
27	3.2240+03	2.3350+03	1.2978+03	1.2821+03	1.2827+03	1.3141+03
28	3.2340+03	2.1600+02	1.2719+03	1.2547+03	1.2555+03	1.2877+03
29	3.2340+03	3.4900+02	1.2454+03	1.2281+03	1.2290+03	1.2622+03
30	3.2340+03	6.1200+02	1.2085+03	1.1915+03	1.1921+03	1.2269+03
31	3.2340+03	1.7550+03	1.2001+03	1.1831+03	1.1840+03	1.2294+03
32	3.2340+03	2.0050+03	1.1616+03	1.1454+03	1.1461+03	1.1920+03
33	3.2440+03	1.7500+03	1.1480+03	1.1315+03	1.1325+03	1.1806+03
34	3.2440+03	2.0000+03	1.1121+03	1.0964+03	1.0972+03	1.1464+03
35	3.2440+03	2.1550+03	1.0804+03	1.0647+03	1.0653+03	1.1177+03
36	3.2440+03	2.2550+03	1.0581+03	1.0425+03	1.0432+03	1.0969+03
37	3.2540+03	1.4900+02	1.0369+03	1.0216+03	1.0222+03	1.0791+03
38	3.2540+03	4.1100+02	1.0058+03	9.9059+02	9.9114+02	1.0512+03
39	3.2540+03	6.0700+02	9.7499+02	9.6022+02	9.6075+02	1.0228+03
40	3.2540+03	1.7450+03	9.4615+02	9.3138+02	9.3150+02	9.9840+02

## 100 KW LIQUID POTASSIUM DATA FOR 0.742 I.D. TUBE

	294	302	310	318	326	334
	TB IN	TB IN	TWO 8	TWO 9	TWO 10	TWO 11
1	1.1050+03	1.1021+03	1.1218+03	1.1336+03	1.1640+03	1.1832+03
2	1.1201+03	1.1174+03	1.1377+03	1.1508+03	1.1841+03	1.2050+03
3	1.1007+03	1.0959+03	1.1217+03	1.1327+03	1.1647+03	1.1790+03
4	1.1461+03	1.1387+03	1.1707+03	1.1858+03	1.2352+03	1.2563+03
5	1.1612+03	1.1536+03	1.1874+03	1.2030+03	1.2562+03	1.2774+03
6	1.1714+03	1.1631+03	1.1995+03	1.2173+03	1.2752+03	1.2981+03
7	1.1877+03	1.1789+03	1.2181+03	1.2368+03	1.2980+03	1.3229+03
8	8.9270+02	8.8078+02	9.2616+02	9.6235+02	1.0859+03	1.1552+03
9	9.2386+02	9.1038+02	9.5585+02	9.9045+02	1.1110+03	1.1771+03
10	9.5096+02	9.3612+02	9.8211+02	1.0154+03	1.1292+03	1.1918+03
11	9.8446+02	9.6942+02	1.0158+03	1.0503+03	1.1622+03	1.2230+03
12	1.0087+03	9.9342+02	1.0407+03	1.0743+03	1.1814+03	1.2410+03
13	1.0341+03	1.0205+03	1.0680+03	1.0999+03	1.2030+03	1.2585+03
14	1.0618+03	1.0468+03	1.0953+03	1.1259+03	1.2291+03	1.2828+03
15	1.0820+03	1.0671+03	1.1158+03	1.1456+03	1.2454+03	1.2960+03
16	1.1025+03	1.0930+03	1.1405+03	1.1686+03	1.2755+03	1.3243+03
17	1.1304+03	1.1201+03	1.1691+03	1.1973+03	1.3068+03	1.3563+03
18	1.1590+03	1.1476+03	1.1990+03	1.2289+03	1.3370+03	1.3847+03
19	1.1838+03	1.1717+03	1.2241+03	1.2513+03	1.3543+03	1.3965+03
20	1.2073+03	1.1948+03	1.2489+03	1.2758+03	1.3774+03	1.4196+03
21	1.2294+03	1.2171+03	1.2699+03	1.2957+03	1.3937+03	1.4326+03
22	1.2411+03	1.2295+03	1.2813+03	1.3047+03	1.3956+03	1.4327+03
23	1.2664+03	1.2551+03	1.3058+03	1.3288+03	1.4165+03	1.4506+03
24	1.2949+03	1.2851+03	1.3380+03	1.3616+03	1.4545+03	1.4822+03
25	1.3280+03	1.3177+03	1.3723+03	1.3961+03	1.4908+03	1.5187+03
26	1.3376+03	1.3270+03	1.3781+03	1.3997+03	1.4846+03	1.5081+03
27	1.3119+03	1.3015+03	1.3513+03	1.3727+03	1.4592+03	1.4822+03
28	1.2868+03	1.2764+03	1.3267+03	1.3482+03	1.4363+03	1.4639+03
29	1.2610+03	1.2518+03	1.3028+03	1.3254+03	1.4155+03	1.4446+03
30	1.2263+03	1.2178+03	1.2685+03	1.2913+03	1.3867+03	1.4170+03
31	1.2306+03	1.2200+03	1.2745+03	1.2998+03	1.3997+03	1.4343+03
32	1.1931+03	1.1839+03	1.2344+03	1.2610+03	1.3585+03	1.3915+03
33	1.1846+03	1.1749+03	1.2268+03	1.2554+03	1.3568+03	1.3976+03
34	1.1504+03	1.1418+03	1.1906+03	1.2187+03	1.3203+03	1.3597+03
35	1.1224+03	1.1144+03	1.1603+03	1.1887+03	1.2917+03	1.3332+03
36	1.1021+03	1.0949+03	1.1425+03	1.1698+03	1.2751+03	1.3209+03
37	1.0862+03	1.0790+03	1.1265+03	1.1561+03	1.2683+03	1.3179+03
38	1.0597+03	1.0528+03	1.0995+03	1.1292+03	1.2404+03	1.2912+03
39	1.0332+03	1.0266+03	1.0737+03	1.1051+03	1.2193+03	1.2743+03
40	1.0088+03	1.0026+03	1.0497+03	1.0819+03	1.1960+03	1.2522+03

## 100 KW LIQUID POTASSIUM DATA FOR 0.742 I.D. TUBE

	342	350	358	366	374	382
	TWO 12	TWO 13	TWO 14	TWO 15	TWO 16	TWO 17
1	1.2007+03	1.2224+03	1.2382+03	1.2461+03	1.2587+03	1.2699+03
2	1.2240+03	1.2472+03	1.2648+03	1.2729+03	1.2870+03	1.2982+03
3	1.1929+03	1.2125+03	1.2280+03	1.2369+03	1.2519+03	1.2640+03
4	1.2769+03	1.3033+03	1.3264+03	1.3398+03	1.3603+03	1.3751+03
5	1.3000+03	1.3273+03	1.3521+03	1.3658+03	1.3881+03	1.4050+03
6	1.3213+03	1.3527+03	1.3795+03	1.3938+03	1.4186+03	1.4368+03
7	1.3474+03	1.3795+03	1.4080+03	1.4241+03	1.4496+03	1.4684+03
8	1.2173+03	1.2879+03	1.3532+03	1.3918+03	1.4410+03	1.4722+03
9	1.2370+03	1.3058+03	1.3679+03	1.4042+03	1.4522+03	1.4834+03
10	1.2479+03	1.3129+03	1.3711+03	1.4052+03	1.4503+03	1.4798+03
11	1.2768+03	1.3411+03	1.3986+03	1.4310+03	1.4768+03	1.5063+03
12	1.2910+03	1.3515+03	1.4073+03	1.4380+03	1.4822+03	1.5111+03
13	1.3048+03	1.3616+03	1.4149+03	1.4436+03	1.4848+03	1.5133+03
14	1.3267+03	1.3819+03	1.4331+03	1.4602+03	1.5002+03	1.5290+03
15	1.3375+03	1.3901+03	1.4393+03	1.4663+03	1.5046+03	1.5330+03
16	1.3623+03	1.4052+03	1.4494+03	1.4757+03	1.5143+03	1.5426+03
17	1.3933+03	1.4359+03	1.4801+03	1.5058+03	1.5458+03	1.5751+03
18	1.4205+03	1.4625+03	1.5048+03	1.5306+03	1.5708+03	1.5994+03
19	1.4304+03	1.4692+03	1.5084+03	1.5330+03	1.5705+03	1.5990+03
20	1.4498+03	1.4867+03	1.5249+03	1.5484+03	1.5855+03	1.6121+03
21	1.4617+03	1.4964+03	1.5314+03	1.5538+03	1.5896+03	1.6155+03
22	1.4582+03	1.4904+03	1.5230+03	1.5434+03	1.5771+03	1.5986+03
23	1.4740+03	1.5035+03	1.5344+03	1.5526+03	1.5852+03	1.6100+03
24	1.4969+03	1.5291+03	1.5606+03	1.5781+03	1.6120+03	1.6373+03
25	1.5358+03	1.5673+03	1.5992+03	1.6167+03	1.6514+03	1.6771+03
26	1.5210+03	1.5504+03	1.5787+03	1.5941+03	1.6251+03	1.6481+03
27	1.4964+03	1.5247+03	1.5534+03	1.5689+03	1.6005+03	1.6234+03
28	1.4784+03	1.5072+03	1.5383+03	1.5544+03	1.5867+03	1.6093+03
29	1.4618+03	1.4902+03	1.5229+03	1.5403+03	1.5733+03	1.5960+03
30	1.4350+03	1.4673+03	1.5012+03	1.5204+03	1.5545+03	1.5784+03
31	1.4542+03	1.4891+03	1.5264+03	1.5467+03	1.5838+03	1.6090+03
32	1.4147+03	1.4489+03	1.4868+03	1.5067+03	1.5417+03	1.5654+03
33	1.4215+03	1.4600+03	1.5013+03	1.5228+03	1.5631+03	1.5899+03
34	1.3857+03	1.4247+03	1.4669+03	1.4892+03	1.5288+03	1.5544+03
35	1.3600+03	1.4001+03	1.4440+03	1.4671+03	1.5066+03	1.5319+03
36	1.3488+03	1.3916+03	1.4370+03	1.4615+03	1.5033+03	1.5293+03
37	1.3498+03	1.3950+03	1.4440+03	1.4703+03	1.5149+03	1.5433+03
38	1.3252+03	1.3722+03	1.4211+03	1.4488+03	1.4945+03	1.5215+03
39	1.3107+03	1.3602+03	1.4116+03	1.4416+03	1.4898+03	1.5175+03
40	1.2912+03	1.3413+03	1.3928+03	1.4235+03	1.4715+03	1.4975+03

# 100 KW LIQUID POTASSIUM DATA FOR 0.742 I.D. TUBE

	390	398	406	414	422	430
	TWO 18	TWO 19	TWO 20	TWO 21	TWO 22	TWO 23
1	1.2790+03	1.3036+03	1.3057+03	1.3155+03	1.3347+03	1.3480+03
2	1.3080+03	1.3338+03	1.3363+03	1.3472+03	1.3686+03	1.3824+03
3	1.2735+03	1.2992+03	1.2973+03	1.3077+03	1.3251+03	1.3369+03
4	1.3896+03	1.4259+03	1.4241+03	1.4375+03	1.4676+03	1.4847+03
5	1.4197+03	1.4581+03	1.4573+03	1.4714+03	1.5033+03	1.5214+03
6	1.4530+03	1.4932+03	1.4934+03	1.5092+03	1.5440+03	1.5640+03
7	1.4854+03	1.5274+03	1.5282+03	1.5454+03	1.5832+03	1.6043+03
8	1.5674+03	1.5648+03	1.6052+03	1.6492+03	1.7423+03	1.7582+03
9	1.5876+03	1.5752+03	1.6128+03	1.6554+03		1.7623+03
10	1.5815+03	1.5684+03	1.6020+03	1.6433+03		1.7464+03
11	1.6119+03	1.5966+03	1.6278+03	1.6679+03		1.7691+03
12	1.6141+03	1.6001+03	1.6285+03	1.6669+03		1.7653+03
13	1.6298+03	1.5999+03	1.6255+03	1.6612+03		1.7590+03
14	1.6426+03	1.6130+03	1.6373+03	1.6700+03		1.7638+03
15	1.6446+03	1.6152+03	1.6366+03	1.6688+03		1.7598+03
16		1.6234+03	1.6452+03	1.6777+03		1.7672+03
17		1.6575+03	1.6778+03	1.7104+03		1.8000+03
18		1.6818+03	1.7010+03	1.7334+03		1.8222+03
19		1.6784+03	1.6938+03	1.7234+03		1.8076+03
20		1.6904+03	1.7041+03	1.7328+03		1.8154+03
21		1.6909+03	1.7029+03	1.7292+03		1.8072+03
22		1.6694+03	1.6774+03	1.7015+03		1.7756+03
23		1.6802+03	1.6869+03	1.7086+03		1.7821+03
24		1.7050+03	1.7141+03	1.7382+03		1.8145+03
25		1.7466+03	1.7553+03	1.7781+03		1.8537+03
26		1.7126+03	1.7190+03	1.7398+03		1.8069+03
27		1.6872+03	1.6938+03	1.7143+03		1.7814+03
28		1.6766+03	1.6838+03	1.7067+03		1.7757+03
29		1.6635+03	1.6726+03	1.6971+03		1.7687+03
30		1.6503+03	1.6612+03	1.6878+03		1.7613+03
31		1.6847+03	1.6978+03	1.7244+03		1.8044+03
32		1.6394+03	1.6529+03	1.6808+03		1.7593+03
33		1.6694+03	1.6849+03	1.7138+03		1.7964+03
34		1.6325+03	1.6490+03	1.6784+03		1.7606+03
35		1.6107+03	1.6293+03	1.6609+03		1.7439+03
36		1.6102+03	1.6316+03	1.6639+03		1.7505+03
37		1.6265+03	1.6523+03	1.6872+03		1.7786+03
38		1.6047+03	1.6317+03	1.6668+03		1.7551+03
39		1.6050+03	1.6349+03	1.6733+03		1.7682+03
40		1.5851+03	1.6159+03	1.6542+03		1.7507+03

100 KW LIQUID POTASSIUM DATA FOR 0.742 I.D. TUBE

	438	446	454	462	470	478
	TWO 24	TWO 25	TWO 26	TWO 27	TB OUT	TB OUT
1	1.3595+03	1.3627+03	1.3638+03	1.3648+03	1.3403+03	1.3354+03
2	1.3948+03	1.3988+03	1.4005+03	1.4014+03	1.3757+03	1.3709+03
3	1.3497+03	1.3544+03	1.3547+03	1.3556+03	1.3292+03	1.3261+03
4	1.4999+03	1.5076+03	1.5082+03	1.5088+03	1.4794+03	1.4760+03
5	1.5378+03	1.5459+03	1.5470+03	1.5473+03	1.5161+03	1.5128+03
6	1.5819+03	1.5909+03	1.5924+03	1.5933+03	1.5593+03	1.5561+03
7	1.6223+03	1.6314+03	1.6327+03	1.6332+03	1.5979+03	1.5950+03
8	1.7885+03	1.8034+03	1.8096+03	1.8107+03	1.7764+03	1.7745+03
9	1.7924+03	1.8073+03	1.8133+03	1.8145+03	1.7821+03	1.7803+03
10	1.7761+03	1.7910+03	1.7968+03	1.7983+03	1.7643+03	1.7625+03
11	1.7978+03	1.8123+03	1.8178+03	1.8188+03	1.7839+03	1.7820+03
12	1.7943+03	1.8085+03	1.8134+03	1.8145+03	1.7787+03	1.7768+03
13	1.7873+03	1.8017+03	1.8061+03	1.8071+03	1.7712+03	1.7695+03
14	1.7905+03	1.8043+03	1.8080+03	1.8088+03	1.7719+03	1.7702+03
15	1.7861+03	1.8002+03	1.8043+03	1.8055+03	1.7683+03	1.7671+03
16	1.7930+03	1.8064+03	1.8105+03	1.8112+03	1.7729+03	1.7708+03
17	1.8244+03	1.8380+03	1.8415+03	1.8423+03	1.7997+03	1.7972+03
18	1.8463+03	1.8610+03	1.8641+03	1.8650+03	1.8269+03	1.8247+03
19	1.8297+03	1.8437+03	1.8464+03	1.8477+03	1.8048+03	1.8021+03
20	1.8362+03	1.8493+03	1.8515+03	1.8524+03	1.8098+03	1.8078+03
21	1.8273+03	1.8394+03	1.8412+03	1.8424+03	1.7999+03	1.7973+03
22	1.7954+03	1.8066+03	1.8079+03	1.7673+03	1.7697+03	1.7675+03
23	1.8014+03	1.8132+03	1.8145+03	1.8174+03	1.7764+03	1.7759+03
24	1.8342+03	1.8433+03	1.8438+03	1.8444+03	1.8021+03	1.7999+03
25	1.8723+03	1.8810+03	1.8810+03	1.8817+03	1.8376+03	1.8352+03
26	1.8239+03	1.8314+03	1.8308+03	1.8317+03	1.7924+03	1.7904+03
27	1.7983+03	1.8041+03	1.8042+03	1.8056+03	1.7712+03	1.7688+03
28	1.7931+03	1.8014+03	1.8021+03	1.8033+03	1.7628+03	1.7602+03
29	1.7862+03	1.7952+03	1.7962+03	1.7979+03	1.7577+03	1.7551+03
30	1.7796+03	1.7895+03	1.7910+03	1.7926+03	1.7528+03	1.7498+03
31	1.8227+03	1.8335+03	1.8360+03	1.8367+03	1.7950+03	1.7922+03
32	1.7782+03	1.7899+03	1.7926+03	1.7938+03	1.7541+03	1.7516+03
33	1.8172+03	1.8286+03	1.8323+03	1.8330+03	1.7912+03	1.7910+03
34	1.7825+03	1.7938+03	1.7978+03	1.7987+03	1.7577+03	1.7580+03
35	1.7665+03	1.7774+03	1.7822+03	1.7831+03	1.7424+03	1.7426+03
36	1.7744+03	1.7856+03	1.7904+03	1.7912+03	1.7525+03	1.7530+03
37	1.8026+03	1.8146+03	1.8193+03	1.8196+03	1.7813+03	1.7814+03
38	1.7782+03	1.7850+03	1.7883+03	1.7838+03	1.7447+03	1.7399+03
39	1.7943+03	1.8062+03	1.8113+03	1.8124+03	1.7759+03	1.7762+03
40	1.7771+03	1.7885+03	1.7941+03	1.7954+03	1.7580+03	1.7576+03



## 100 KW LIQUID POTASSIUM DATA FOR 0.742 I.D. TUBE

	509	516	523	530	537	544
	CND IN	CND 37	CND 38	CND 39	CND 40	CND 41
1	1.3247+03	1.3064+03	1.2534+03	1.2218+03	1.1898+03	1.1708+03
2	1.3591+03	1.3395+03	1.2828+03	1.2500+03	1.2158+03	1.1950+03
3	1.3164+03	1.2981+03	1.2457+03	1.2137+03	1.1813+03	1.1624+03
4	1.4579+03	1.4342+03	1.3623+03	1.3228+03	1.2814+03	1.2556+03
5	1.4931+03	1.4686+03	1.3930+03	1.3507+03	1.3073+03	1.2804+03
6	1.5343+03	1.5073+03	1.4256+03	1.3805+03	1.3337+03	1.3050+03
7	1.5701+03	1.5416+03	1.4548+03	1.4076+03	1.3585+03	1.3285+03
8	1.6903+03	1.6046+03	1.3848+03	1.2841+03	1.1955+03	1.1396+03
9	1.7023+03	1.6221+03	1.4136+03	1.3161+03	1.2298+03	1.1734+03
10	1.6921+03	1.6202+03	1.4283+03	1.3366+03	1.2536+03	1.1995+03
11	1.7162+03	1.6479+03	1.4619+03	1.3727+03	1.2912+03	1.2378+03
12	1.7162+03	1.6533+03	1.4787+03	1.3939+03	1.3148+03	1.2630+03
13	1.7140+03	1.6549+03	1.4891+03	1.4091+03	1.3328+03	1.2829+03
14	1.7178+03	1.6630+03	1.5047+03	1.4293+03	1.3548+03	1.3065+03
15	1.7173+03	1.6654+03	1.5139+03	1.4414+03	1.3686+03	1.3216+03
16	1.7254+03	1.6766+03	1.5304+03	1.4607+03	1.3926+03	1.3428+03
17	1.7511+03	1.7039+03	1.5591+03	1.4889+03	1.4215+03	1.3711+03
18	1.7790+03	1.7315+03	1.5840+03	1.5131+03	1.4460+03	1.3953+03
19	1.7588+03	1.7159+03	1.5808+03	1.5143+03	1.4512+03	1.4029+03
20	1.7668+03	1.7261+03	1.5947+03	1.5311+03	1.4687+03	1.4214+03
21	1.7587+03	1.7199+03	1.5938+03	1.5337+03	1.4733+03	1.4275+03
22	1.7326+03	1.6963+03	1.5791+03	1.5231+03	1.4665+03	1.4233+03
23	1.7337+03	1.6990+03	1.5863+03	1.5328+03	1.4779+03	1.4354+03
24	1.7657+03	1.7312+03	1.6163+03	1.5607+03	1.4677+03	1.4626+03
25	1.8004+03	1.7661+03	1.6479+03	1.5922+03	1.5328+03	1.4906+03
26	1.7591+03	1.7270+03	1.6185+03	1.5667+03	1.5121+03	1.4727+03
27	1.7377+03	1.7054+03	1.5985+03	1.5469+03	1.4926+03	1.4531+03
28	1.7276+03	1.6952+03	1.5868+03	1.5345+03	1.4811+03	1.4411+03
29	1.7218+03	1.6876+03	1.5773+03	1.5232+03	1.4693+03	1.4284+03
30	1.7155+03	1.6797+03	1.5650+03	1.5093+03	1.4534+03	1.4115+03
31	1.7541+03	1.7156+03	1.5919+03	1.5316+03	1.4713+03	1.4264+03
32	1.7150+03	1.6761+03	1.5536+03	1.4944+03	1.4357+03	1.3911+03
33	1.7497+03	1.7068+03	1.5741+03	1.5089+03	1.4445+03	1.3972+03
34	1.7166+03	1.6724+03	1.5416+03	1.4765+03	1.4122+03	1.3656+03
35	1.7001+03	1.6550+03	1.5214+03	1.4556+03	1.3906+03	1.3430+03
36	1.7080+03	1.6602+03	1.5200+03	1.4515+03	1.3835+03	1.3345+03
37	1.7310+03	1.6780+03	1.5251+03	1.4506+03	1.3792+03	1.3275+03
38	1.7114+03	1.6563+03	1.4997+03	1.4227+03	1.3506+03	1.2982+03
39	1.7195+03	1.6591+03	1.4921+03	1.4103+03	1.3353+03	1.2806+03
40	1.6979+03	1.6370+03	1.4686+03	1.3853+03	1.3105+03	1.2551+03

100 KW LIQUID POTASSIUM DATA FOR 0.742 I.D. TUBE

	551	558	555	572	579	586
	CND 42	CND 43	CND 44	CND 45	CND 46	CND 47
1	1.1477+03	1.1252+03	1.1042+03	1.0857+03	1.0657+03	1.0479+03
2	1.1708+03	1.1468+03	1.1244+03	1.1054+03	1.0846+03	1.0662+03
3	1.1389+03	1.1164+03	1.0952+03	1.0769+03	1.0572+03	1.0393+03
4	1.2260+03	1.1969+03	1.1707+03	1.1486+03	1.1253+03	1.1051+03
5	1.2489+03	1.2185+03	1.1903+03	1.1670+03	1.1427+03	1.1218+03
6	1.2720+03	1.2404+03	1.2109+03	1.1860+03	1.1603+03	1.1383+03
7	1.2943+03	1.2615+03	1.2304+03	1.2043+03	1.1774+03	1.1546+03
8	1.0869+03	1.0413+03	1.0020+03	9.7123+02	9.4037+02	9.1487+02
9	1.1211+03	1.0762+03	1.0368+03	1.0049+03	9.7341+02	9.4735+02
10	1.1477+03	1.1042+03	1.0657+03	1.0341+03	1.0019+03	9.7555+02
11	1.1848+03	1.1403+03	1.1019+03	1.0702+03	1.0376+03	1.0101+03
12	1.2118+03	1.1676+03	1.1294+03	1.0982+03	1.0657+03	1.0378+03
13	1.2322+03	1.1875+03	1.1492+03	1.1186+03	1.0870+03	1.0600+03
14	1.2574+03	1.2135+03	1.1745+03	1.1434+03	1.1119+03	1.0850+03
15	1.2736+03	1.2305+03	1.1915+03	1.1606+03	1.1290+03	1.1024+03
16	1.2948+03	1.2518+03	1.2132+03	1.1819+03	1.1504+03	1.1239+03
17	1.3229+03	1.2794+03	1.2402+03	1.2078+03	1.1753+03	1.1476+03
18	1.3476+03	1.3040+03	1.2650+03	1.2328+03	1.1994+03	1.1714+03
19	1.3572+03	1.3152+03	1.2773+03	1.2460+03	1.2135+03	1.1861+03
20	1.3766+03	1.3348+03	1.2974+03	1.2662+03	1.2338+03	1.2055+03
21	1.3845+03	1.3439+03	1.3071+03	1.2765+03	1.2443+03	1.2164+03
22	1.3821+03	1.3436+03	1.3085+03	1.2794+03	1.2485+03	1.2213+03
23	1.3954+03	1.3569+03	1.3221+03	1.2928+03	1.2621+03	1.2351+03
24	1.4211+03	1.3814+03	1.3456+03	1.3151+03	1.2838+03	1.2565+03
25	1.4489+03	1.4086+03	1.3716+03	1.3408+03	1.3090+03	1.2811+03
26	1.4334+03	1.3951+03	1.3600+03	1.3306+03	1.3000+03	1.2732+03
27	1.4138+03	1.3758+03	1.3415+03	1.3120+03	1.2818+03	1.2555+03
28	1.4017+03	1.3638+03	1.3292+03	1.2998+03	1.2692+03	1.2424+03
29	1.3884+03	1.3503+03	1.3152+03	1.2854+03	1.2547+03	1.2279+03
30	1.3703+03	1.3315+03	1.2959+03	1.2657+03	1.2346+03	1.2075+03
31	1.3822+03	1.3413+03	1.3039+03	1.2726+03	1.2404+03	1.2122+03
32	1.3481+03	1.3077+03	1.2713+03	1.2406+03	1.2094+03	1.1824+03
33	1.3519+03	1.3102+03	1.2721+03	1.2406+03	1.2081+03	1.1801+03
34	1.3207+03	1.2791+03	1.2412+03	1.2099+03	1.1783+03	1.1515+03
35	1.2977+03	1.2555+03	1.2174+03	1.1861+03	1.1551+03	1.1285+03
36	1.2874+03	1.2446+03	1.2058+03	1.1745+03	1.1432+03	1.1168+03
37	1.2784+03	1.2339+03	1.1941+03	1.1623+03	1.1305+03	1.1035+03
38	1.2485+03	1.2033+03	1.1637+03	1.1325+03	1.1019+03	1.0751+03
39	1.2297+03	1.1840+03	1.1451+03	1.1139+03	1.0821+03	1.0545+03
40	1.2040+03	1.1596+03	1.1215+03	1.0901+03	1.0580+03	1.0306+03

100 KW LIQUID POTASSIUM DATA FOR 0.742 I.D. TUBE

	593	600	607	614	621	628
	CNDDIS	PUMPIN	TRADTR	TRADTL	TRADMR	TRADML
1	1.0216+03	9.6826+02	7.3898+02	7.3896+02	7.3695+02	7.2178+02
2	1.0390+03	9.8320+02	7.5959+02	7.5963+02	7.5748+02	7.4138+02
3	1.0134+03	9.6084+02	7.2915+02	7.2901+02	7.2623+02	7.1226+02
4	1.0747+03	1.0104+03	8.1771+02	8.1776+02	8.1832+02	8.0009+02
5	1.0910+03	1.0249+03	8.4891+02	8.3563+02	8.3618+02	8.1776+02
6	1.1063+03	1.0377+03	8.7005+02	8.5674+02	8.5776+02	8.3878+02
7	1.1215+03	1.0511+03	8.8596+02	8.7232+02	8.7468+02	8.5572+02
8	8.7965+02	8.0012+02	8.5076+02	8.3752+02	8.3353+02	8.1416+02
9	9.1175+02	8.3058+02	8.6532+02	8.5232+02	8.4933+02	8.2992+02
10	9.3983+02	8.5860+02	8.7324+02	8.6069+02	8.5889+02	8.3939+02
11	9.7306+02	8.9087+02	8.9297+02	8.8035+02	8.7976+02	8.6019+02
12	9.9931+02	9.1706+02	9.0392+02	8.9115+02	8.9128+02	8.7195+02
13	1.0220+03	9.3957+02	9.0980+02	8.9690+02	8.9859+02	8.7939+02
14	1.0469+03	9.6286+02	9.2096+02	9.0781+02	9.1058+02	8.9146+02
15	1.0648+03	9.8049+02	9.2693+02	9.1370+02	9.1672+02	8.9765+02
16	1.0864+03	1.0027+03	9.4296+02	9.2903+02	9.3225+02	9.1801+02
17	1.1097+03	1.0251+03	9.5824+02	9.4464+02	9.4795+02	9.3370+02
18	1.1326+03	1.0479+03	9.7289+02	9.5957+02	9.6306+02	9.4882+02
19	1.1474+03	1.0637+03	9.5660+02	9.5649+02	9.6007+02	9.4610+02
20	1.1661+03	1.0828+03	9.7747+02	9.6465+02	9.6852+02	9.5474+02
21	1.1769+03	1.0946+03	9.7616+02	9.6342+02	9.6736+02	9.5374+02
22	1.1822+03	1.1023+03	9.6607+02	9.5340+02	9.5745+02	9.4397+02
23	1.1959+03	1.1164+03	9.6764+02	9.5506+02	9.5936+02	9.4588+02
24	1.2171+03	1.1354+03	9.7937+02	9.6869+02	9.6921+02	9.6784+02
25	1.2405+03	1.1558+03	9.9315+02	9.8234+02	9.8264+02	9.8142+02
26	1.2342+03	1.1534+03	9.7176+02	9.6126+02	9.6102+02	9.5946+02
27	1.2171+03	1.1382+03	9.6354+02	9.5242+02	9.5211+02	9.5074+02
28	1.2038+03	1.1253+03	9.6147+02	9.5022+02	9.4945+02	9.4814+02
29	1.1896+03	1.1115+03	9.5878+02	9.4758+02	9.4645+02	9.4511+02
30	1.1696+03	1.0916+03	9.5480+02	9.4368+02	9.4157+02	9.4040+02
31	1.1731+03	1.0915+03	9.7002+02	9.5846+02	9.5478+02	9.5336+02
32	1.1449+03	1.0655+03	9.5067+02	9.3906+02	9.3473+02	9.3354+02
33	1.1416+03	1.0592+03	9.4835+02	9.4823+02	9.4282+02	9.4353+02
34	1.1144+03	1.0326+03	9.2976+02	9.2969+02	9.2389+02	9.2466+02
35	1.0919+03	1.0102+03	9.1868+02	9.1863+02	9.1214+02	9.1295+02
36	1.0803+03	9.9776+02	9.1747+02	9.1745+02	9.1065+02	9.1148+02
37	1.0655+03	9.8144+02	9.1880+02	9.1877+02	9.1139+02	9.1213+02
38	1.0376+03	9.5548+02	9.0288+02	9.0285+02	8.9429+02	8.9512+02
39	1.0165+03	9.3486+02	9.1236+02	8.9840+02	8.8935+02	8.9010+02
40	9.9334+02	9.1307+02	8.8434+02	8.8433+02	8.7405+02	8.7442+02

100 KW LIQUID POTASSIUM DATA FOR 0.742 I.D. TUBE

	635	642	663	799	819	823
	TRADER	TRADBL	PHCASE	QN PH	QN B	Q/A
1	6.9497+02	6.9247+02	7.8648+02	9.0400-01	4.0898+00	2.8737+04
2	7.1289+02	7.1035+02	7.9147+02	9.2190-01	4.7197+00	3.3163+04
3	6.8535+02	6.8621+02	7.7529+02	8.8560-01	4.1567+00	2.9208+04
4	7.6522+02	7.6263+02	8.0447+02	9.5460-01	6.0139+00	4.2257+04
5	7.7995+02	7.7766+02	8.0858+02	9.5800-01	6.4716+00	4.5474+04
6	7.9849+02	7.9649+02	8.0945+02	9.1860-01	6.8973+00	4.8464+04
7	8.1352+02	8.1192+02	8.1401+02	9.5330-01	7.3564+00	5.1691+04
8	7.6283+02	7.6185+02	7.8513+02	9.5800-01	6.5796+00	4.6232+04
9	7.7713+02	7.7654+02	7.8807+02	1.0170+00	6.9900+00	4.9116+04
10	7.8682+02	7.8644+02	7.9175+02	1.0170+00	7.2104+00	5.0664+04
11	8.0531+02	8.0550+02	7.9685+02	9.5800-01	7.6952+00	5.4071+04
12	8.1650+02	8.1709+02	7.9771+02	9.4440-01	8.1324+00	5.7143+04
13	8.2366+02	8.2436+02	8.0299+02	9.1860-01	8.2223+00	5.7775+04
14	8.3533+02	8.3621+02	8.0800+02	9.2520-01	8.5661+00	6.0191+04
15	8.4117+02	8.4223+02	8.0921+02	9.2190-01	8.8095+00	6.1901+04
16	8.5415+02	8.5601+02	8.1486+02	9.5460-01	9.1865+00	6.4550+04
17	8.6842+02	8.7042+02	8.1900+02	9.5460-01	9.6047+00	6.7489+04
18	8.8191+02	8.8417+02	8.2500+02	9.5800-01	1.0086+01	7.0871+04
19	8.8147+02	8.8336+02	8.2807+02	9.5800-01	1.0224+01	7.1841+04
20	8.8916+02	8.9136+02	8.2894+02	9.4780-01	1.0167+01	7.1442+04
21	8.8887+02	8.9125+02	8.3175+02	9.4780-01	1.0090+01	7.0897+04
22	8.8121+02	8.8333+02	8.3212+02	9.5460-01	9.8427+00	6.9161+04
23	8.8361+02	8.8582+02	8.3577+02	9.2520-01	9.8212+00	6.9009+04
24	9.0301+02	9.0644+02	8.3881+02	9.4100-01	1.0285+01	7.2270+04
25	9.1542+02	9.1928+02	8.4626+02	9.4100-01	1.0718+01	7.5314+04
26	8.9663+02	9.0037+02	8.4279+02	9.4100-01	9.8724+00	6.9369+04
27	8.8826+02	8.9182+02	8.3458+02	9.4100-01	9.7630+00	6.8601+04
28	8.8523+02	8.8895+02	8.3313+02	9.1980-01	9.7036+00	6.8183+04
29	8.8202+02	8.8561+02	8.2925+02	9.0540-01	9.5903+00	6.7387+04
30	8.7655+02	8.8023+02	8.2323+02	9.1980-01	9.7878+00	6.8775+04
31	8.8625+02	8.9015+02	7.9715+02	9.7700-01	1.0142+01	7.1267+04
32	8.6853+02	8.7239+02	7.8807+02	9.4100-01	9.6819+00	6.8031+04
33	8.7897+02	8.8085+02	7.9058+02	9.8400-01	9.9240+00	6.9732+04
34	8.6179+02	8.6334+02	7.8228+02	9.7000-01	9.3364+00	6.5603+04
35	8.5081+02	8.5231+02	7.7776+02	9.7000-01	8.9209+00	6.2683+04
36	8.4920+02	8.5063+02	7.7264+02	9.7000-01	9.0801+00	6.3802+04
37	8.4859+02	8.5011+02	7.7072+02	9.5205-01	9.0755+00	6.3769+04
38	8.3323+02	8.3446+02	7.6529+02	9.5494-01	8.6254+00	6.0607+04
39	8.2788+02	8.2921+02	7.6082+02	9.4860-01	8.3505+00	5.8675+04
40	8.1417+02	8.1513+02	7.5833+02	9.6300-01	7.9040+00	5.5538+04

100 KW LIQUID POTASSIUM DATA FOR 0.742 I.D. TUBE

	839	842
	FLOW	G
1	6.4190-02	7.6956+04
2	6.4823-02	7.7715+04
3	6.6499-02	7.9724+04
4	6.4573-02	7.7416+04
5	6.4664-02	7.7525+04
6	6.4754-02	7.7632+04
7	6.4864-02	7.7765+04
8	2.6468-02	3.1732+04
9	2.9185-02	3.4989+04
10	3.1922-02	3.8270+04
11	3.4658-02	4.1551+04
12	3.7357-02	4.4787+04
13	4.0037-02	4.8000+04
14	4.2729-02	5.1227+04
15	4.5447-02	5.4485+04
16	4.8203-02	5.7790+04
17	5.0973-02	6.1110+04
18	5.3776-02	6.4471+04
19	5.6563-02	6.7812+04
20	5.9332-02	7.1131+04
21	6.2074-02	7.4419+04
22	6.4792-02	7.7677+04
23	6.8189-02	8.1750+04
24	7.0608-02	8.4650+04
25	7.3563-02	8.8193+04
26	7.5984-02	9.1096+04
27	7.3359-02	8.7949+04
28	7.1016-02	8.5140+04
29	6.8142-02	8.1694+04
30	6.4680-02	7.7543+04
31	6.2009-02	7.4342+04
32	5.9158-02	7.0924+04
33	5.6492-02	6.7728+04
34	5.3651-02	6.4321+04
35	5.0876-02	6.0995+04
36	4.8152-02	5.7728+04
37	4.5450-02	5.4490+04
38	4.2715-02	5.1210+04
39	4.0034-02	4.7996+04
40	3.7345-02	4.4772+04

## 100 KW LIQUID POTASSIUM DATA FOR 0.742 I.D. TUBE

	236	237	262	270	278	286
	DATE	TIME	PMPDIS	TPH IN	TPH IN	TWO O
1	3.2540+03	2.0000+03	9.2379+02	9.0915+02	9.8050+02	9.9272+02
2	3.2540+03	2.1450+03	8.8508+02	8.7073+02	8.7122+02	9.4839+02
3	3.2540+03	2.2550+03	8.5775+02	8.4374+02	8.4405+02	9.2665+02
4	3.2640+03	1.3900+02	8.1499+02	8.0164+02	8.0184+02	8.9213+02
5	3.2640+03	5.0800+02	1.0153+03	1.0042+03	1.0047+03	1.0507+03
6	3.2640+03	1.9000+03	1.0291+03	1.0172+03	1.0174+03	1.0646+03
7	3.2640+03	2.1150+03	1.0442+03	1.0318+03	1.0318+03	1.0785+03
8	3.2640+03	2.3400+03	1.0652+03	1.0521+03	1.0526+03	1.0971+03
9	3.2740+03	3.2900+02	1.0886+03	1.0751+03	1.0756+03	1.1193+03
10	3.2740+03	6.1900+02	1.1025+03	1.0885+03	1.0890+03	1.1321+03
11	3.2740+03	1.8300+03	1.1155+03	1.1016+03	1.1017+03	1.1452+03
12	3.3040+03	1.8550+03	8.1321+02	7.9911+02	7.9923+02	8.9296+02
13	3.3040+03	2.1000+03	8.4855+02	8.3425+02	8.3474+02	9.2102+02
14	3.3040+03	2.3300+03	8.7523+02	8.6083+02	8.6133+02	9.3922+02
15	3.3140+03	3.0700+02	9.2204+02	9.0678+02	9.0742+02	9.7912+02
16	3.3140+03	5.0200+02	9.4728+02	9.3196+02	9.3250+02	9.9886+02
17	3.3140+03	7.1000+02	9.7892+02	9.6363+02	9.6413+02	1.0282+03
18	3.3140+03	1.8500+03	9.7687+02	9.6164+02	9.6209+02	1.0285+03
19	3.3140+03	2.1500+03	1.0067+03	9.9118+02	9.9165+02	1.0546+03
20	4.0140+03	1.0100+02	1.0397+03	1.0236+03	1.0242+03	1.0817+03
21	4.0140+03	5.2100+02	1.0661+03	1.0501+03	1.0507+03	1.1049+03
22	4.0140+03	1.8550+03	1.0883+03	1.0720+03	1.0726+03	1.1259+03
23	4.0140+03	2.1400+03	1.1187+03	1.1026+03	1.1033+03	1.1536+03
24	4.0140+03	2.3350+03	1.1439+03	1.1271+03	1.1278+03	1.1753+03
25	4.0240+03	2.5400+02	1.1779+03	1.1606+03	1.1613+03	1.2073+03
26	4.0240+03	4.4400+02	1.1981+03	1.1806+03	1.1814+03	1.2265+03
27	4.0240+03	1.8550+03	1.2222+03	1.2041+03	1.2051+03	1.2490+03
28	4.0240+03	2.1550+03	1.2529+03	1.2347+03	1.2356+03	1.2794+03
29	4.0340+03	2.2200+02	1.2763+03	1.2582+03	1.2590+03	1.3000+03
30	4.0340+03	5.2600+02	1.2996+03	1.2812+03	1.2821+03	1.3216+03
31	4.0540+03	1.7050+03	1.3309+03	1.3120+03	1.3133+03	1.3529+03
32	4.0540+03	1.9000+03	1.2868+03	1.2685+03	1.2694+03	1.3111+03
33	4.0540+03	2.1300+03	1.2504+03	1.2321+03	1.2330+03	1.2767+03
34	4.0640+03	4.0000+01	1.2186+03	1.2004+03	1.2012+03	1.2453+03
35	4.0640+03	3.1400+02	1.2007+03	1.1831+03	1.1838+03	1.2290+03
36	4.0640+03	5.3500+02	1.1722+03	1.1551+03	1.1557+03	1.2012+03

100 KW LIQUID POTASSIUM DATA FOR 0.742 I.D. TUBE

	294	302	310	318	326	334
	FB IN	FB IN	TWO 8	TWO 9	TWO 10	TWO 11
1	9.8644+02	9.8613+02	1.0322+03	1.0662+03	1.1872+03	1.2477+03
2	9.6344+02	9.5781+02	1.0016+03	1.0367+03	1.1607+03	1.2253+03
3	9.4424+02	9.3862+02	9.8234+02	1.0177+03	1.1452+03	1.2122+03
4	9.1343+02	9.0814+02	9.5263+02	9.8802+02	1.1230+03	1.1954+03
5	1.0391+03	1.0352+03	1.0591+03	1.0674+03	1.1009+03	1.1144+03
6	1.0515+03	1.0475+03	1.0722+03	1.0805+03	1.1139+03	1.1264+03
7	1.0668+03	1.0623+03	1.0881+03	1.0971+03	1.1346+03	1.1472+03
8	1.0864+03	1.0816+03	1.1088+03	1.1189+03	1.1594+03	1.1746+03
9	1.1097+03	1.1046+03	1.1334+03	1.1445+03	1.1901+03	1.2065+03
10	1.1240+03	1.1184+03	1.1495+03	1.1627+03	1.2143+03	1.2337+03
11	1.1366+03	1.1315+03	1.1643+03	1.1788+03	1.2338+03	1.2516+03
12	9.1597+02	9.0713+02	9.5249+02	9.8995+02	1.1218+03	1.1916+03
13	9.4121+02	9.3156+02	9.7672+02	1.0132+03	1.1404+03	1.2055+03
14	9.5598+02	9.4655+02	9.8947+02	1.0229+03	1.1410+03	1.1980+03
15	9.9495+02	9.8401+02	1.0314+03	1.0656+03	1.1859+03	1.2438+03
16	1.0126+03	1.0015+03	1.0488+03	1.0798+03	1.1899+03	1.2436+03
17	1.0429+03	1.0294+03	1.0774+03	1.1087+03	1.2203+03	1.2717+03
18	1.0391+03	1.0293+03	1.0779+03	1.1099+03	1.2236+03	1.2755+03
19	1.0544+03	1.0532+03	1.1029+03	1.1345+03	1.2482+03	1.2992+03
20	1.0910+03	1.0796+03	1.1310+03	1.1610+03	1.2736+03	1.3220+03
21	1.1130+03	1.1019+03	1.1510+03	1.1804+03	1.2900+03	1.3352+03
22	1.1290+03	1.1206+03	1.1696+03	1.2001+03	1.3042+03	1.3463+03
23	1.1572+03	1.1476+03	1.1987+03	1.2291+03	1.3348+03	1.3762+03
24	1.1784+03	1.1684+03	1.2198+03	1.2485+03	1.3505+03	1.3435+03
25	1.2109+03	1.1995+03	1.2543+03	1.2841+03	1.3865+03	1.4255+03
26	1.2285+03	1.2175+03	1.2709+03	1.3005+03	1.3967+03	1.4333+03
27	1.2488+03	1.2390+03	1.2939+03	1.3212+03	1.4217+03	1.4556+03
28	1.2788+03	1.2682+03	1.3241+03	1.3541+03	1.4521+03	1.4849+03
29	1.2973+03	1.2881+03	1.3424+03	1.3690+03	1.4621+03	1.4910+03
30	1.3179+03	1.3089+03	1.3617+03	1.3871+03	1.4785+03	1.5040+03
31	1.3483+03	1.3390+03	1.3899+03	1.4121+03	1.4946+03	1.5195+03
32	1.3083+03	1.2983+03	1.3493+03	1.3733+03	1.4601+03	1.4861+03
33	1.2761+03	1.2653+03	1.3160+03	1.3417+03	1.4307+03	1.4604+03
34	1.2461+03	1.2352+03	1.2857+03	1.3110+03	1.4013+03	1.4308+03
35	1.2309+03	1.2195+03	1.2715+03	1.2967+03	1.3917+03	1.4238+03
36	1.2031+03	1.1933+03	1.2451+03	1.2726+03	1.3682+03	1.4032+03

## 100 KW LIQUID POTASSIUM DATA FOR 0.742 I.D. TUBE

	342	350	358	366	374	382
	TWO 12	TWO 13	TWO 14	TWO 15	TWO 16	TWO 17
1	1.2896+03	1.3429+03	1.3978+03	1.4308+03	1.4812+03	1.5090+03
2	1.2705+03	1.3262+03	1.3826+03	1.4191+03	1.4702+03	1.4985+03
3	1.2601+03	1.3180+03	1.3755+03	1.4135+03	1.4656+03	1.4951+03
4	1.2486+03	1.3098+03	1.3708+03	1.4115+03	1.4669+03	1.4978+03
5	1.1206+03	1.1328+03	1.1452+03	1.1526+03	1.1650+03	1.1719+03
6	1.1329+03	1.1447+03	1.1556+03	1.1625+03	1.1743+03	1.1827+03
7	1.1560+03	1.1692+03	1.1820+03	1.1900+03	1.2032+03	1.2133+03
8	1.1840+03	1.1985+03	1.2136+03	1.2224+03	1.2375+03	1.2489+03
9	1.2171+03	1.2331+03	1.2499+03	1.2592+03	1.2760+03	1.2883+03
10	1.2455+03	1.2636+03	1.2827+03	1.2932+03	1.3116+03	1.3253+03
11	1.2636+03	1.2833+03	1.3027+03	1.3134+03	1.3327+03	1.3481+03
12	1.2442+03	1.3053+03	1.3667+03	1.4055+03	1.4611+03	1.4935+03
13	1.2544+03	1.3127+03	1.3718+03	1.4085+03	1.4617+03	1.4926+03
14	1.2410+03	1.2943+03	1.3477+03	1.3806+03	1.4293+03	1.4577+03
15	1.2869+03	1.3401+03	1.3949+03	1.4280+03	1.4791+03	1.5082+03
16	1.2807+03	1.3293+03	1.3800+03	1.4096+03	1.4572+03	1.4844+03
17	1.3085+03	1.3557+03	1.4066+03	1.4348+03	1.4819+03	1.5110+03
18	1.3132+03	1.3624+03	1.4129+03	1.4436+03	1.4907+03	1.5185+03
19	1.3338+03	1.3826+03	1.4330+03	1.4619+03	1.5085+03	1.5380+03
20	1.3546+03	1.4012+03	1.4498+03	1.4773+03	1.5232+03	1.5513+03
21	1.3650+03	1.4095+03	1.4553+03	1.4823+03	1.5257+03	1.5534+03
22	1.3741+03	1.4122+03	1.4575+03	1.4825+03	1.5235+03	1.5508+03
23	1.4044+03	1.4450+03	1.4860+03	1.5099+03	1.5519+03	1.5791+03
24	1.4138+03	1.4515+03	1.4921+03	1.5161+03	1.5565+03	1.5826+03
25	1.4483+03	1.4849+03	1.5261+03	1.5506+03	1.5916+03	1.6181+03
26	1.4547+03	1.4891+03	1.5272+03	1.5500+03	1.5895+03	1.6141+03
27	1.4773+03	1.5099+03	1.5476+03	1.5679+03	1.6045+03	1.6306+03
28	1.5059+03	1.5397+03	1.5764+03	1.5976+03	1.6336+03	1.6613+03
29	1.5101+03	1.5407+03	1.5747+03	1.5936+03	1.6269+03	1.6564+03
30	1.5213+03	1.5524+03	1.5849+03	1.6022+03	1.6330+03	1.6598+03
31	1.5359+03	1.5642+03	1.5933+03	1.6079+03		1.6603+03
32	1.5046+03	1.5350+03	1.5651+03	1.5805+03		1.6338+03
33	1.4797+03	1.5102+03	1.5437+03	1.5618+03		1.6186+03
34	1.4525+03	1.4836+03	1.5173+03	1.5357+03		1.5916+03
35	1.4476+03	1.4811+03	1.5162+03	1.5439+03		1.5976+03
36	1.4277+03	1.4627+03	1.4996+03	1.5201+03		1.5825+03



100 KW LIQUID POTASSIUM DATA FOR 0.742 I.D. TUBE

	390	398	406	414	422	430
	TWO 18	TWO 19	TWO 20	TWO 21	TWO 22	TWO 23
1		1.6006+03	1.6346+03	1.6751+03		1.7749+03
2		1.5908+03	1.6281+03	1.6701+03		1.7725+03
3		1.5886+03	1.6291+03	1.6719+03		1.7764+03
4		1.5936+03	1.6377+03	1.6834+03		1.7909+03
5		1.2019+03	1.2010+03	1.2112+03		1.2393+03
6		1.2135+03	1.2111+03	1.2210+03		1.2473+03
7		1.2479+03	1.2458+03	1.2567+03		1.2862+03
8		1.2867+03	1.2853+03	1.2973+03		1.3299+03
9		1.3281+03	1.3287+03	1.3412+03		1.3774+03
10		1.3699+03	1.3707+03	1.3854+03		1.4263+03
11		1.3948+03	1.3970+03	1.4121+03		1.4584+03
12		1.5917+03	1.6358+03	1.6820+03		1.7934+03
13		1.5884+03	1.6301+03	1.6737+03		1.7821+03
14		1.5474+03	1.5832+03	1.6240+03		1.7257+03
15		1.6027+03	1.6371+03	1.6801+03		1.7815+03
16		1.5720+03	1.6014+03	1.6403+03		1.7341+03
17		1.5994+03	1.6279+03	1.6660+03		1.7592+03
18		1.6087+03	1.6377+03	1.6758+03		1.7703+03
19		1.6278+03	1.6550+03	1.6927+03		1.7842+03
20		1.6388+03	1.6644+03	1.7010+03		1.7915+03
21		1.6394+03	1.6616+03	1.6970+03		1.7824+03
22		1.6332+03	1.6538+03	1.6879+03		1.7684+03
23		1.6629+03	1.6814+03	1.7147+03		1.7950+03
24		1.6635+03	1.6802+03	1.7107+03		1.7882+03
25		1.6999+03	1.7145+03	1.7440+03		1.8232+03
26		1.6924+03	1.7047+03	1.7337+03		1.8070+03
27		1.7093+03	1.7180+03	2.0614+03		1.8208+03
28		1.7397+03	1.7474+03	2.0846+03		1.8484+03
29		1.7292+03	1.7343+03	2.0611+03		1.8288+03
30		1.7346+03	1.7383+03	2.0550+03		1.8282+03
31		1.7280+03	1.7318+03	1.7474+03		1.8126+03
32		1.7029+03	1.7073+03	1.7254+03		1.7938+03
33		1.6909+03	1.6997+03	1.7177+03		1.7868+03
34		1.6637+03	1.6708+03	2.0133+03		1.7648+03
35		1.6718+03	1.6806+03	2.0136+03		1.7778+03
36		1.6602+03	1.6705+03	1.6967+03		1.7716+03

100 KW LIQUID POTASSIUM DATA FOR 0.742 I.D. TUBE

	438	446	454	462	470	478
	TWO 24	TWO 25	TWO 26	TWO 27	TB OUT	TB OUT
1	1.8013+03	1.8128+03	1.8186+03	1.8198+03	1.7817+03	1.7821+03
2	1.7992+03	1.8113+03	1.8172+03	1.8180+03	1.7812+03	1.7812+03
3	1.8038+03	1.8157+03	1.8217+03	1.8230+03	1.7839+03	1.7833+03
4	1.8184+03	1.8303+03	1.8363+03	1.8376+03	1.8010+03	1.8008+03
5	1.2469+03	1.2514+03	1.2506+03	1.2516+03	1.2294+03	1.2262+03
6	1.2559+03	1.2612+03	1.2607+03	1.2608+03	1.2396+03	1.2358+03
7	1.2960+03	1.3018+03	1.3016+03	1.3014+03	1.2789+03	1.2746+03
8	1.3403+03	1.3459+03	1.3458+03	1.3462+03	1.3209+03	1.3169+03
9	1.3883+03	1.3945+03	1.3946+03	1.3955+03	1.3693+03	1.3657+03
10	1.4384+03	1.4448+03	1.4453+03	1.4458+03	1.4180+03	1.4150+03
11	1.4711+03	1.4791+03	1.4797+03	1.4806+03	1.4509+03	1.4479+03
12	1.8202+03	1.8323+03	1.8382+03	1.8395+03	1.8058+03	1.8042+03
13	1.8096+03	1.8215+03	1.8274+03	1.8284+03	1.7963+03	1.7950+03
14	1.7521+03	1.7641+03	1.7697+03	1.7714+03	1.7389+03	1.7372+03
15	1.8071+03	1.8188+03	1.8240+03	1.8255+03	1.7921+03	1.7909+03
16	1.7596+03	1.7704+03	1.7751+03	1.7763+03	1.7434+03	1.7424+03
17	1.7833+03	1.7949+03	1.7992+03	1.8001+03	1.7663+03	1.7653+03
18	1.7947+03	1.8064+03	1.8107+03	1.8119+03	1.7771+03	1.7760+03
19	1.8070+03	1.8184+03	1.8229+03	1.8234+03	1.7866+03	1.7855+03
20	1.8131+03	1.8248+03	1.8290+03	1.8295+03	1.7939+03	1.7929+03
21	1.8036+03	1.8149+03	1.8186+03	1.8191+03	1.7833+03	1.7821+03
22	1.7906+03	1.8005+03	1.8041+03	1.8059+03	1.7703+03	1.7690+03
23	1.8162+03	1.8263+03	1.8292+03	1.8307+03	1.7912+03	1.7896+03
24	1.8084+03	1.8183+03	1.8216+03	1.8235+03	1.7847+03	1.7832+03
25	1.8424+03	1.8515+03	1.8540+03	1.8555+03	1.8142+03	1.8127+03
26	1.8250+03	1.8333+03	1.8362+03	1.8380+03	1.7976+03	1.7963+03
27	1.8389+03	1.8466+03	1.8488+03	1.8495+03	1.8082+03	1.8060+03
28	1.8663+03	1.8729+03	1.8742+03	1.8747+03	1.8330+03	1.8308+03
29	1.8456+03	1.8512+03	1.8520+03	1.8528+03	1.8135+03	1.8108+03
30	1.8446+03	1.8498+03	1.8502+03	1.8510+03	1.8099+03	1.8076+03
31	1.8285+03	1.8323+03	1.8332+03	1.8332+03	1.7944+03	1.7919+03
32	1.8126+03	1.8171+03	1.8182+03	1.8186+03	1.7758+03	1.7736+03
33	1.8034+03	1.8085+03	1.8102+03	1.8098+03	1.7718+03	1.7697+03
34	1.7824+03	1.7893+03	1.7913+03	1.7917+03	1.7528+03	1.7509+03
35	1.7962+03	1.8034+03	1.8063+03	1.8064+03	1.7679+03	1.7660+03
36	1.7910+03	1.7990+03	1.8020+03	1.8016+03	1.7634+03	1.7618+03

100 KW LIQUID POTASSIUM DATA FOR 0.742 I.D. TUBE

	509	516	523	530	537	544
	CND IN	CND 37	CND 38	CND 39	CND 40	CND 41
1	1.7169+03	1.6502+03	1.4673+03	1.3781+03	1.2998+03	1.2424+03
2	1.7096+03	1.6366+03	1.5310+03	1.3477+03	1.2661+03	1.2071+03
3	1.7077+03	1.6297+03	1.4230+03	1.3263+03	1.2429+03	1.1831+03
4	1.7122+03	1.6236+03	1.3954+03	1.2922+03	1.2035+03	1.1424+03
5	1.2172+03	1.2015+03	1.1566+03	1.1317+03	1.1079+03	1.0879+03
6	1.2264+03	1.2108+03	1.1658+03	1.1409+03	1.1172+03	1.0971+03
7	1.2651+03	1.2480+03	1.1980+03	1.1705+03	1.1445+03	1.1226+03
8	1.3054+03	1.2873+03	1.2340+03	1.2039+03	1.1754+03	1.1517+03
9	1.3524+03	1.3324+03	1.2743+03	1.2419+03	1.2106+03	1.1846+03
10	1.3992+03	1.3775+03	1.3134+03	1.2787+03	1.2440+03	1.2160+03
11	1.4314+03	1.4086+03	1.3412+03	1.3048+03	1.2684+03	1.2395+03
12	1.7152+03	1.6260+03	1.3990+03	1.2945+03	1.2073+03	1.1467+03
13	1.7147+03	1.6327+03	1.4220+03	1.3232+03	1.2392+03	1.1788+03
14	1.6680+03	1.5985+03	1.4139+03	1.3232+03	1.2458+03	1.1889+03
15	1.7232+03	1.6539+03	1.4678+03	1.3779+03	1.3002+03	1.2423+03
16	1.6837+03	1.6233+03	1.4593+03	1.3767+03	1.3039+03	1.2495+03
17	1.7088+03	1.6509+03	1.4899+03	1.4095+03	1.3368+03	1.2832+03
18	1.7182+03	1.6586+03	1.4931+03	1.4112+03	1.3371+03	1.2829+03
19	1.7299+03	1.6739+03	1.5138+03	1.4351+03	1.3626+03	1.3093+03
20	1.7396+03	1.6862+03	1.5327+03	1.4563+03	1.3854+03	1.3331+03
21	1.7332+03	1.6836+03	1.5382+03	1.4656+03	1.3975+03	1.3470+03
22	1.7243+03	1.6776+03	1.5377+03	1.4702+03	1.4045+03	1.3554+03
23	1.7452+03	1.6996+03	1.5613+03	1.4945+03	1.4299+03	1.3808+03
24	1.7411+03	1.6985+03	1.5662+03	1.5022+03	1.4399+03	1.3918+03
25	1.7719+03	1.7303+03	1.5994+03	1.5349+03	1.4716+03	1.4237+03
26	1.7580+03	1.7187+03	1.5927+03	1.5323+03	1.4722+03	1.4263+03
27	1.7687+03	1.7309+03	1.6118+03	1.5498+03	1.4893+03	1.4451+03
28	1.7936+03	1.7563+03	1.6344+03	1.5736+03	1.5116+03	1.4676+03
29	1.7537+03	1.7405+03	1.6263+03	1.5695+03	1.5110+03	1.4688+03
30	1.7732+03	1.7399+03	1.6291+03	1.5746+03	1.5169+03	1.4753+03
31	1.7624+03	1.7284+03	1.6201+03	1.5681+03	1.5110+03	1.4708+03
32	1.7443+03	1.7094+03	1.6000+03	1.5471+03	1.4912+03	1.4506+03
33	1.7393+03	1.7031+03	1.5898+03	1.5346+03	1.4770+03	1.4348+03
34	1.7182+03	1.6807+03	1.5677+03	1.5115+03	1.4542+03	1.4125+03
35	1.7307+03	1.6919+03	1.5739+03	1.5152+03	1.4561+03	1.4133+03
36	1.7256+03	1.6850+03	1.5626+03	1.5025+03	1.4420+03	1.3971+03

## 100 KW LIQUID POTASSIUM DATA FOR 0.742 I.D. TUBE

	551	558	565	572	579	586
	CND 42	CND 43	CND 44	CND 45	CND 46	CND 47
1	1.1893+03	1.1440+03	1.1053+03	1.0732+03	1.0403+03	1.0124+03
2	1.1538+03	1.1089+03	1.0696+03	1.0373+03	1.0048+03	9.7786+02
3	1.1300+03	1.0851+03	1.0452+03	1.0127+03	9.8085+02	9.5454+02
4	1.1089+03	1.0438+03	1.0040+03	9.7288+02	9.4199+02	9.1609+02
5	1.0666+03	1.0457+03	1.0259+03	1.0090+03	9.9123+02	9.7612+02
6	1.0765+03	1.0557+03	1.0361+03	1.0189+03	1.0008+03	9.8591+02
7	1.1008+03	1.0784+03	1.0579+03	1.0399+03	1.0207+03	1.0042+03
8	1.1282+03	1.1052+03	1.0836+03	1.0646+03	1.0446+03	1.0271+03
9	1.1593+03	1.1346+03	1.1121+03	1.0928+03	1.0717+03	1.0535+03
10	1.1880+03	1.1612+03	1.1369+03	1.1161+03	1.0943+03	1.0751+03
11	1.2094+03	1.1814+03	1.1557+03	1.1337+03	1.1110+03	1.0914+03
12	1.0930+03	1.0461+03	1.0059+03	9.7415+02	9.4280+02	9.1660+02
13	1.1249+03	1.0790+03	1.0390+03	1.0060+03	9.7408+02	9.4737+02
14	1.1378+03	1.0941+03	1.0554+03	1.0232+03	9.9189+02	9.6593+02
15	1.1888+03	1.1433+03	1.1044+03	1.0718+03	1.0388+03	1.0107+03
16	1.1985+03	1.1546+03	1.1170+03	1.0859+03	1.0540+03	1.0266+03
17	1.2320+03	1.1867+03	1.1483+03	1.1171+03	1.0851+03	1.0574+03
18	1.2316+03	1.1866+03	1.1481+03	1.1166+03	1.0844+03	1.0568+03
19	1.2584+03	1.2128+03	1.1736+03	1.1420+03	1.1098+03	1.0820+03
20	1.2836+03	1.2289+03	1.1990+03	1.1668+03	1.1347+03	1.1075+03
21	1.2987+03	1.2553+03	1.2164+03	1.1841+03	1.1520+03	1.1247+03
22	1.3093+03	1.2667+03	1.2286+03	1.1966+03	1.1646+03	1.1376+03
23	1.3348+03	1.2924+03	1.2539+03	1.2214+03	1.1884+03	1.1607+03
24	1.3470+03	1.3052+03	1.2674+03	1.2360+03	1.2035+03	1.1760+03
25	1.3785+03	1.3365+03	1.2981+03	1.2661+03	1.2331+03	1.2044+03
26	1.3830+03	1.3420+03	1.3049+03	1.2738+03	1.2416+03	1.2134+03
27	1.4011+03	1.3604+03	1.3234+03	1.2924+03	1.3152+03	1.2313+03
28	1.4243+03	1.3836+03	1.3465+03	1.3155+03	1.2829+03	1.2543+03
29	1.4275+03	1.3881+03	1.3517+03	1.3211+03	1.2892+03	1.2613+03
30	1.4352+03	1.3966+03	1.3608+03	1.3308+03	1.2992+03	1.2718+03
31	1.4316+03	1.3949+03	1.3586+03	1.3295+03	1.2985+03	1.2713+03
32	1.4111+03	1.3727+03	1.3370+03	1.3078+03	1.2770+03	1.2498+03
33	1.3944+03	1.3561+03	1.3206+03	1.2909+03	1.2592+03	1.2316+03
34	1.3722+03	1.3332+03	1.2978+03	1.2682+03	1.2370+03	1.2100+03
35	1.3723+03	1.3322+03	1.2944+03	1.2638+03	1.2318+03	1.2043+03
36	1.3543+03	1.3139+03	1.2773+03	1.2467+03	1.2145+03	1.1870+03

100 KW LIQUID POTASSIUM DATA FOR 0.742 I.D. TUBE

	593	600	607	614	621	628
	ENDDIS	PUMPIN	TRADTR	TRADTL	TRADMR	TRADML
1	9.7561+02	8.9464+02	8.8245+02	8.8244+02	8.7185+02	8.7241+02
2	9.4200+02	8.6131+02	8.6600+02	8.6600+02	8.5407+02	8.5446+02
3	9.1905+02	8.3798+02	8.5546+02	8.5548+02	8.4250+02	8.4262+02
4	8.8112+02	8.0109+02	8.4141+02	8.4140+02	8.2679+02	8.2678+02
5	9.5359+02	9.0799+02	6.8304+02	6.8308+02	6.7557+02	6.7430+02
6	9.6338+02	9.1798+02	6.8793+02	6.8795+02	6.8125+02	6.7907+02
7	9.8086+02	9.3274+02	7.0967+02	7.0962+02	7.0231+02	7.0087+02
8	1.0018+03	9.5119+02	7.3388+02	7.3382+02	7.2656+02	7.2572+02
9	1.0268+03	9.7228+02	7.5962+02	7.5959+02	7.5173+02	7.5180+02
10	1.0472+03	9.8830+02	7.8634+02	7.8628+02	7.7832+02	7.7895+02
11	1.0626+03	1.0017+03	7.9590+02	7.9589+02	7.9302+02	7.9418+02
12	8.8183+02	8.0207+02	8.3820+02	8.3816+02	8.2529+02	8.2544+02
13	9.1194+02	8.3134+02	8.5085+02	8.5083+02	8.3899+02	8.3945+02
14	9.3113+02	8.5179+02	8.4603+02	8.4599+02	8.3494+02	8.3577+02
15	9.7421+02	8.9246+02	8.7912+02	8.7908+02	8.6888+02	8.6980+02
16	9.9045+02	9.1067+02	8.7399+02	8.7391+02	8.6457+02	8.6593+02
17	1.0198+03	9.3846+02	8.9288+02	8.9283+02	8.8464+02	8.8602+02
18	1.0192+03	9.3724+02	8.9593+02	8.9589+02	8.8765+02	8.8942+02
19	1.0444+03	9.6126+02	9.0905+02	9.0899+02	9.0114+02	9.0317+02
20	1.0700+03	9.8526+02	9.2055+02	9.2052+02	9.1359+02	9.1583+02
21	1.0876+03	1.0035+03	9.2464+02	9.2462+02	9.1809+02	9.2034+02
22	1.1011+03	1.0186+03	9.2732+02	9.2724+02	9.2182+02	9.2510+02
23	1.1230+03	1.0400+03	9.4043+02	9.4034+02	9.3507+02	9.3852+02
24	1.1385+03	1.0571+03	9.4375+02	9.4365+02	9.3852+02	9.4205+02
25	1.1654+03	1.0830+03	9.6161+02	9.6149+02	9.5687+02	9.6037+02
26	1.1745+03	1.0930+03	9.5866+02	9.5854+02	9.5389+02	9.5749+02
27	1.1911+03	1.1096+03	9.6837+02	9.6830+02	9.6642+02	9.6939+02
28	1.2137+03	1.1296+03	9.8090+02	9.8084+02	9.7936+02	9.8243+02
29	1.2215+03	1.1395+03	9.7573+02	9.7561+02	9.7385+02	9.7704+02
30	1.2325+03	1.1507+03	9.7542+02	9.7533+02	9.7386+02	9.7708+02
31	1.2329+03	1.1511+03	9.5614+02	9.5608+02	9.5615+02	9.6008+02
32	1.2108+03	1.1310+03	9.5073+02	9.5072+02	9.5048+02	9.5446+02
33	1.1928+03	1.1133+03	9.4872+02	9.4868+02	9.4840+02	9.5246+02
34	1.1722+03	1.0940+03	9.3815+02	9.3814+02	9.3773+02	9.4163+02
35	1.1665+03	1.0869+03	9.4399+02	9.4397+02	9.4342+02	9.4729+02
36	1.1494+03	1.0696+03	9.3928+02	9.3924+02	9.3818+02	9.4224+02

## 100 KW LIQUID POTASSIUM DATA FOR 0.742 I.D. TUBE

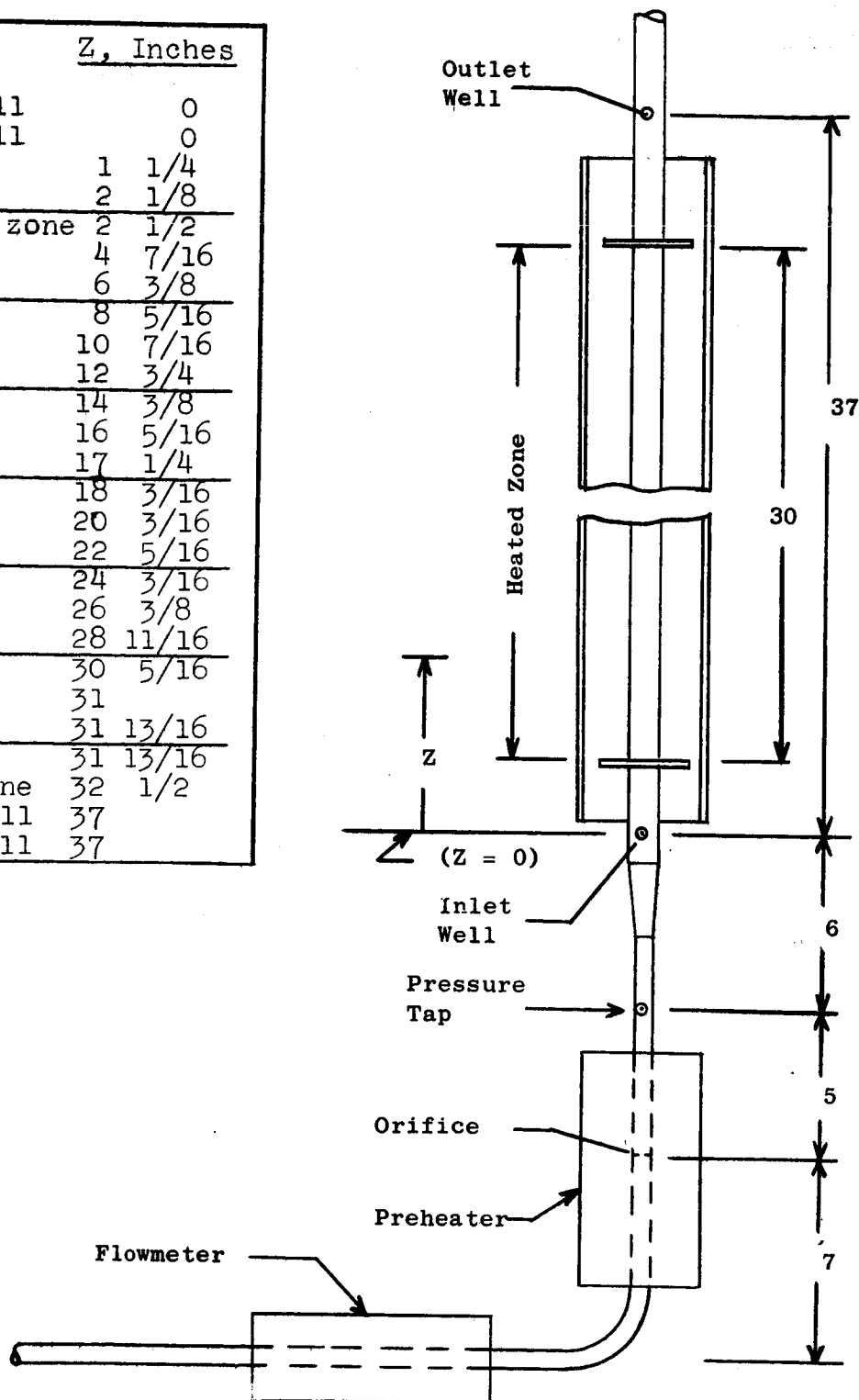
	635	642	663	799	819	823
	TRADBR	TRADBL	PHCASE	QN PH	QN B	Q/A
1	8.1095+02	8.1210+02	7.5602+02	9.7000-01	7.8944+00	5.5471+04
2	7.9458+02	7.9536+02	7.5104+02	9.7700-01	7.3859+00	5.1898+04
3	7.8415+02	7.8456+02	7.4736+02	9.7700-01	7.2415+00	5.0883+04
4	7.6863+02	7.6881+02	7.3878+02	9.8050-01	6.8037+00	4.7807+04
5	6.4802+02	6.4400+02	7.3124+02	9.7700-01	3.6517+00	2.5659+04
6	6.5366+02	6.4940+02	7.3851+02	9.6585-01	3.6229+00	2.5456+04
7	6.7113+02	6.6772+02	7.4150+02	9.6585-01	3.9688+00	2.7887+04
8	6.9237+02	6.8983+02	7.4250+02	9.7000-01	4.4236+00	3.1083+04
9	7.1448+02	7.1316+02	7.5039+02	9.7000-01	4.8636+00	3.4175+04
10	7.3679+02	7.3624+02	7.5569+02	9.7000-01	5.2992+00	3.7235+04
11	7.5110+02	7.5001+02	7.6212+02	9.8050-01	5.8265+00	4.0940+04
12	7.6621+02	7.6763+02	7.3545+02	9.4100-01	6.8224+00	4.7938+04
13	7.7937+02	7.8101+02	7.3973+02	9.4100-01	7.0673+00	4.9659+04
14	7.7723+02	7.7875+02	7.3846+02	9.2400-01	7.0394+00	4.9463+04
15	8.0745+02	8.0955+02	7.4876+02	8.9300-01	7.8019+00	5.4820+04
16	8.0478+02	8.0675+02	7.4846+02	8.9300-01	7.8367+00	5.5065+04
17	8.2280+02	8.2497+02	7.5790+02	9.8095-01	8.3842+00	5.8913+04
18	8.2589+02	8.2768+02	7.6181+02	9.8050-01	8.5058+00	5.9767+04
19	8.3791+02	8.3998+02	7.6491+02	9.7350-01	8.8663+00	6.2300+04
20	8.4982+02	8.5190+02	7.6642+02	9.7350-01	9.3508+00	6.5704+04
21	8.5427+02	8.5646+02	7.7026+02	9.7700-01	9.3113+00	6.5427+04
22	8.5801+02	8.5977+02	7.7744+02	9.7000-01	9.5660+00	6.7216+04
23	8.7029+02	8.7212+02	7.8273+02	9.7000-01	9.8327+00	6.9090+04
24	8.7418+02	8.7599+02	7.8519+02	9.6650-01	9.9687+00	7.0046+04
25	8.9029+02	8.9237+02	7.9170+02	9.3760-01	1.0358+01	7.2780+04
26	8.8875+02	8.9072+02	7.9452+02	9.3760-01	1.0386+01	7.2975+04
27	8.9921+02	9.0084+02	8.0285+02	9.7000-01	1.0528+01	7.3978+04
28	9.1123+02	9.1306+02	8.1014+02	9.8050-01	1.0998+01	7.7277+04
29	9.0701+02	9.0868+02	8.1136+02	9.4049-01	1.0474+01	7.3599+04
30	9.0782+02	9.0952+02	8.1444+02	9.3760-01	1.0762+01	7.5621+04
31	8.9225+02	8.9428+02	8.1601+02	9.8750-01	9.9671+00	7.0034+04
32	8.8653+02	8.8862+02	8.0875+02	9.8400-01	9.8535+00	6.9237+04
33	8.8308+02	8.8515+02	8.0444+02	9.9100-01	9.8223+00	6.9017+04
34	8.7343+02	8.7534+02	7.9505+02	9.4440-01	9.5569+00	6.7152+04
35	8.7759+02	8.7948+02	7.9461+02	9.4100-01	9.6450+00	6.7771+04
36	8.7205+02	8.7392+02	7.8849+02	9.4780-01	9.7013+00	6.8167+04

100 KW LIQUID POTASSIUM DATA FOR 0.742 I.D. TUBE

	839	842
	FLOW	G
1	3.4641-02	4.1530+04
2	3.1938-02	3.8289+04
3	2.9222-02	3.5034+04
4	2.6466-02	3.1730+04
5	6.4066-02	7.6807+04
6	6.4946-02	7.7863+04
7	6.5023-02	7.7955+04
8	6.4884-02	7.7788+04
9	6.5041-02	7.7977+04
10	6.5145-02	7.8101+04
11	6.5240-02	7.8215+04
12	2.6469-02	3.1734+04
13	2.9190-02	3.4995+04
14	3.1893-02	3.8236+04
15	3.4668-02	4.1562+04
16	3.7322-02	4.4745+04
17	4.0554-02	4.8620+04
18	4.0047-02	4.8012+04
19	4.2731-02	5.1229+04
20	4.5465-02	5.4507+04
21	4.8202-02	5.7788+04
22	5.0934-02	6.1064+04
23	5.3711-02	6.4393+04
24	5.6497-02	6.7733+04
25	5.9312-02	7.1108+04
26	6.2066-02	7.4409+04
27	6.4898-02	7.7805+04
28	6.7835-02	8.1326+04
29	7.0638-02	8.4687+04
30	7.3500-02	8.8117+04
31	7.4140-02	8.8885+04
32	7.0599-02	8.4640+04
33	6.7660-02	8.1116+04
34	6.4746-02	7.7623+04
35	6.2023-02	7.4358+04
36	5.9233-02	7.1013+04

Table B-4  
100 KW Loop Instrumentation  
Beginning April 1, 1964

TC	Location	Z, Inches
6	Boiler inlet well	0
7	Boiler inlet well	0
8	Pipe wall temp.	1 1/4
9	Pipe wall temp.	2 1/8
	Start of heated zone	2 1/2
10	Boiler wall	4 7/16
11	Boiler wall	6 3/8
12	Boiler wall	8 5/16
13	Boiler wall	10 7/16
14	Boiler wall	12 3/4
15	Boiler wall	14 3/8
16	Boiler wall	16 5/16
17	Boiler wall	17 1/4
18	Boiler wall	18 3/16
19	Boiler wall	20 3/16
20	Boiler wall	22 5/16
21	Boiler wall	24 3/16
22	Boiler wall	26 3/8
23	Boiler wall	28 11/16
24	Boiler wall	30 5/16
25	Boiler wall	31
26	Boiler wall	31 13/16
27	Boiler wall	31 13/16
	End of heated zone	32 1/2
30	Boiler outlet well	37
31	Boiler outlet well	37



Schematic Representation of the 100 KW Test Section Showing Thermocouple Locations.



Table B-5  
100 KW Boiling Potassium Data  
Key to Table B-6

Col. No.	Heading	Description
236	Date (e.g., 4.0140 + 03 = 4/1/64)	
237	Time (e.g., 8.4500 + 02 = 0845)	
262	PMPDIS	E. M. Pump discharge
270	TPH IN	Preheater inlet temperature, °F
278	TPH IN	Preheater inlet temperature, °F
286	TWO O	Pipe wall temperature at orifice
294	TB IN	Fluid temperature at boiler inlet
302	TB IN	Fluid temperature at boiler inlet
310	TWO 8	Outside wall temperature at 8, °F
318	TWO 9	Outside wall temperature at 9, °F
326	TWO 10	Outside wall temperature at 10, °F
334	TWO 11	Outside wall temperature at 11, °F
342	TWO 12	Outside wall temperature at 12, °F
350	TWO 13	Outside wall temperature at 13, °F
358	TWO 14	Outside wall temperature at 14, °F
366	TWO 15	Outside wall temperature at 15, °F
374	TWO 16	Outside wall temperature at 16, °F
382	TWO 17	Outside wall temperature at 17, °F
398	TWO 19	Outside wall temperature at 19, °F
406	TWO 20	Outside wall temperature at 20, °F
414	TWO 21	Outside wall temperature at 21, °F
422	TWO 22	Outside wall temperature at 22, °F
430	TWO 23	Outside wall temperature at 23, °F
438	TWO 24	Outside wall temperature at 24, °F
446	TWO 25	Outside wall temperature at 25, °F
454	TWO 26	Outside wall temperature at 26, °F
462	TWO 27	Outside wall temperature at 27, °F
470	TB OUT	Fluid Temperature at Boiler Outlet, °F
478	TB OUT	Fluid Temperature at Boiler Outlet, °F
509	CND IN	Condenser inlet temperature, °F
516	CND 37	Condenser temperature at 37, °F
523	CND 38	Condenser temperature at 38, °F
530	CND 39	Condenser temperature at 39, °F
537	CND 40	Condenser temperature at 40, °F
544	CND 41	Condenser temperature at 41, °F
551	CND 42	Condenser temperature at 42, °F
558	CND 43	Condenser temperature at 43, °F
565	CND 44	Condenser temperature at 44, °F
572	CND 45	Condenser temperature at 45, °F
579	CND 46	Condenser temperature at 46, °F
586	CND 47	Condenser temperature at 47, °F
593	CNDDIS	Condenser outlet temperature, °F
600	PUMPIN	E. M. Pump inlet temperature, °F
607	TRADTR	Radiation Case Temperature, °F
614	TRADTL	Radiation Case Temperature, °F
621	TRADMR	Radiation Case Temperature, °F
628	TRADML	Radiation Case Temperature, °F
635	TRADBR	Radiation Case Temperature, °F
642	TRADBL	Radiation Case Temperature, °F

Table B-5 (Continued)

<u>Col. No.</u>	<u>Heading</u>	<u>Description</u>
663	PH CASE	Preheater Case Temperature, °F
799	QN PH	Net Preheater Power, KW
819	QN B	Net Boiler Power, KW
823	Q/A	Boiler Heat Flux, Btu/hr-ft <sup>2</sup>
839	FLOW	Flow rate, lb/sec
842	G	Mass velocity, lb/hr-ft <sup>2</sup>
853	X OUT	Boiler outlet quality
855	EB OUT	Fluid enthalpy at boiler outlet
858	VEL OUT	Vapor velocity at boiler exit, ft/sec
859	P SAT	Saturation pressure corresponding to boiler outlet temperature, psia
1003	TWI 8	Inside wall temperature at 8, °F
1010	TWI 9	Inside wall temperature at 9, °F
1017	TWI 10	Inside wall temperature at 10, °F
1024	TWI 11	Inside wall temperature at 11, °F
1031	TWI 12	Inside wall temperature at 12, °F
1038	TWI 13	Inside wall temperature at 13, °F
1045	TWI 14	Inside wall temperature at 14, °F
1052	TWI 15	Inside wall temperature at 15, °F
1059	TWI 16	Inside wall temperature at 16, °F
1066	TWI 17	Inside wall temperature at 17, °F
1080	TWI 19	Inside wall temperature at 19, °F
1087	TWI 20	Inside wall temperature at 20, °F
1094	TWI 21	Inside wall temperature at 21, °F
1101	TWI 22	Inside wall temperature at 22, °F
1108	TWI 23	Inside wall temperature at 23, °F
1115	TWI 24	Inside wall temperature at 24, °F
1122	TWI 25	Inside wall temperature at 25, °F
1129	TWI 26	Inside wall temperature at 26, °F
1136	TWI 27	Inside wall temperature at 27, °F
1137	DT 27	(TWI 27) - (TB OUT) average at 27, °F
1138	H 27	<div style="display: flex; justify-content: space-around;"> <div> <math>\frac{Q/A}{DT\ 27}</math> </div> <div> <math>\frac{Btu}{hr/ft^2\ ^\circ F}</math> </div> </div>

Note: If the values in any column are not printed a thermocouple malfunction is indicated.

TABLE B-6. 100 KW BOILING POTASSIUM DATA FOR THE PERIOD  
APRIL 1, 1964 TO APRIL 30, 1964

100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	236	237	262	270	278	286
	DATE	TIME	PMPDIS	TPH IN	TPH IN	TWO O
1	4.0140+03	8.4500+02	1.1341+03	1.1169+03	1.1179+03	1.1668+03
2	4.0140+03	1.1100+03	1.1785+03	1.1601+03	1.1612+03	1.2099+03
3	4.0140+03	1.3270+03	1.3064+03	1.2828+03	1.2837+03	1.3308+03
4	4.0140+03	1.4400+03	1.3332+03	1.3099+03	1.3097+03	1.3566+03
5	4.0240+03	1.2150+03	9.7563+02	9.5967+02	9.6090+02	1.2899+03
6	4.0240+03	1.3410+03	9.7544+02	9.5886+02	9.5987+02	1.2596+03
7	4.0240+03	1.4450+03	9.7502+02	9.5856+02	9.5932+02	1.2084+03
8	4.0340+03	8.3000+02	9.7981+02	9.6353+02	9.6430+02	1.1658+03
9	4.0340+03	9.5000+02	9.8308+02	9.6659+02	9.6742+02	1.1241+03
10	4.0340+03	1.1150+03	9.7965+02	9.6284+02	9.6341+02	1.0791+03
11	4.0340+03	1.2400+03	9.7844+02	9.6171+02	9.6241+02	1.0318+03
12	4.0340+03	1.4000+03	9.9044+02	9.7361+02	9.7443+02	1.0422+03
13	4.0640+03	9.1500+02	1.0150+03	9.9676+02	9.9771+02	1.0691+03
14	4.0640+03	1.0300+03	1.0275+03	1.0089+03	1.0100+03	1.0801+03
15	4.0640+03	1.2300+03	1.0384+03	1.0189+03	1.0200+03	1.0907+03
16	4.0640+03	1.3350+03	1.0506+03	1.0305+03	1.0317+03	1.1015+03
17	4.0640+03	1.4450+03	1.0665+03	1.0455+03	1.0469+03	1.1161+03
18	4.0740+03	1.0300+03	1.0846+03	1.0642+03	1.0659+03	1.1293+03
19	4.0740+03	1.2250+03	1.0966+03	1.0772+03	1.0771+03	1.1404+03
20	4.0740+03	1.3400+03	1.1072+03	1.0873+03	1.0871+03	1.1502+03
21	4.0740+03	1.4450+03	1.1196+03	1.0992+03	1.0991+03	1.1620+03
22	4.0840+03	1.0300+03	1.1449+03	1.1244+03	1.1242+03	1.1847+03
23	4.0840+03	1.2200+03	1.1483+03	1.1261+03	1.1259+03	1.1876+03
24	4.0840+03	1.3400+03	1.1699+03	1.1466+03	1.1464+03	1.2085+03
25	4.0940+03	1.0400+03	1.1973+03	1.1736+03	1.1733+03	1.2363+03
26	4.0940+03	1.3500+03	1.0254+03	1.0074+03	1.0079+03	1.4459+03
27	4.0940+03	1.4550+03	1.0300+03	1.0116+03	1.0124+03	1.4032+03
28	4.1040+03	1.0400+03	9.4185+02	9.2754+02	9.2846+02	1.3671+03
29	4.1040+03	1.2200+03	9.4529+02	9.3019+02	9.3089+02	1.3191+03
30	4.1040+03	1.3450+03	9.4622+02	9.3079+02	9.3150+02	1.2780+03
31	4.1040+03	1.4500+03	9.4643+02	9.3092+02	9.3163+02	1.2258+03
32	4.1140+03	1.0300+03	9.5874+02	9.4320+02	9.4437+02	1.1877+03
33	4.1140+03	1.1460+03	9.5813+02	9.4202+02	9.4288+02	1.1416+03
34	4.1140+03	1.3200+03	9.6190+02	9.4582+02	9.4662+02	1.1030+03
35	4.1340+03	1.0300+03	9.6545+02	9.4917+02	9.5035+02	1.0592+03
36	4.1340+03	1.2200+03	9.6891+02	9.5245+02	9.5317+02	1.0245+03
37	4.1340+03	1.3400+03	9.8024+02	9.6330+02	9.6414+02	1.0355+03
38	4.1340+03	1.4500+03	9.9414+02	9.7649+02	9.7747+02	1.0493+03

100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	294	302	310	318	326	334
	TB IN	TB IN	TWO 8	TWO 9	TWO 10	TWO 11
1	1.1717+03	1.1621+03	1.2164+03	1.2494+03	1.3624+03	1.4056+03
2	1.2168+03	1.2060+03	1.2710+03	1.3082+03	1.4407+03	1.4903+03
3	1.3373+03	1.3259+03	1.4100+03	1.4596+03	1.6305+03	1.6969+03
4	1.3663+03	1.3531+03	1.4411+03	1.4884+03	1.6669+03	1.7315+03
5	1.3061+03	1.2983+03	1.3589+03	1.3973+03	1.5309+03	1.5939+03
6	1.2758+03	1.2677+03	1.3325+03	1.3722+03	1.5132+03	1.5805+03
7	1.2247+03	1.2160+03	1.2812+03	1.3240+03	1.4721+03	1.5421+03
8	1.1808+03	1.1720+03	1.2378+03	1.2820+03	1.4358+03	1.5079+03
9	1.1417+03	1.1308+03	1.1988+03	1.2492+03	1.4156+03	1.4952+03
10	1.0976+03	1.0859+03	1.1531+03	1.2007+03	1.3680+03	1.4495+03
11	1.0533+03	1.0405+03	1.1087+03	1.1592+03	1.3307+03	1.4157+03
12	1.0657+03	1.0510+03	1.1235+03	1.1745+03	1.3571+03	1.4467+03
13	1.0956+03	1.0774+03	1.1509+03	1.2054+03	1.3956+03	1.4901+03
14	1.1091+03	1.0893+03	1.1684+03	1.2267+03	1.4317+03	1.5334+03
15	1.1216+03	1.1006+03	1.1847+03	1.2439+03	1.4560+03	1.5645+03
16	1.1324+03	1.1118+03	1.2005+03	1.2652+03	1.4905+03	1.6073+03
17	1.1491+03	1.1268+03	1.2212+03	1.2890+03	1.5255+03	1.6498+03
18	1.1619+03	1.1390+03	1.2392+03	1.3093+03	1.5519+03	1.6826+03
19	1.1745+03	1.1513+03	1.2576+03	1.3305+03	1.5826+03	1.7230+03
20	1.1850+03	1.1597+03	1.2723+03	1.3495+03	1.6146+03	1.7611+03
21	1.1971+03	1.1713+03	1.2864+03	1.3644+03	1.6379+03	1.7910+03
22	1.2230+03	1.1950+03	1.3175+03	1.3970+03	1.6771+03	1.8295+03
23	1.2278+03	1.1995+03	1.3269+03	1.4116+03	1.7045+03	1.8642+03
24	1.2474+03	1.2204+03	1.3542+03	1.4424+03	1.7484+03	1.9096+03
25	1.2722+03	1.2498+03	1.3828+03	1.4718+03	1.7785+03	1.9361+03
26	1.4653+03	1.4576+03	1.5301+03	1.5734+03	1.7316+03	1.8068+03
27	1.4233+03	1.4148+03	1.4911+03	1.5366+03	1.7054+03	1.7863+03
28	1.3831+03	1.3780+03	1.4267+03	1.4528+03	1.5468+03	1.5941+03
29	1.3345+03	1.3291+03	1.3803+03	1.4089+03	1.5140+03	1.5645+03
30	1.2949+03	1.2888+03	1.3438+03	1.3748+03	1.4893+03	1.5437+03
31	1.2425+03	1.2361+03	1.2919+03	1.3267+03	1.4464+03	1.5025+03
32	1.2070+03	1.1982+03	1.2600+03	1.2991+03	1.4357+03	1.4998+03
33	1.1606+03	1.1517+03	1.2146+03	1.2575+03	1.4024+03	1.4711+03
34	1.1228+03	1.1119+03	1.1759+03	1.2214+03	1.3764+03	1.4522+03
35	1.0823+03	1.0680+03	1.1321+03	1.1750+03	1.3337+03	1.4123+03
36	1.0479+03	1.0336+03	1.0997+03	1.1452+03	1.3071+03	1.3886+03
37	1.0611+03	1.0452+03	1.1167+03	1.1654+03	1.3424+03	1.4319+03
38	1.0773+03	1.0599+03	1.1364+03	1.1894+03	1.3806+03	1.4788+03

# 100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	342	350	358	366	374	382
	TWO 12	TWO 13	TWO 14	TWO 15	TWO 16	TWO 17
1	1.4349+03	1.4785+03	1.5246+03	1.5513+03	1.5965+03	1.6241+03
2	1.5229+03	1.5759+03	1.6305+03	1.6620+03	1.7139+03	1.7452+03
3	1.7406+03	1.7786+03	1.7272+03	1.7186+03	1.7195+03	1.7305+03
4	1.7725+03	1.7283+03	1.7282+03	1.7214+03	1.7236+03	1.7306+03
5	1.6392+03	1.6947+03	1.7490+03	1.7819+03	1.8332+03	1.8671+03
6	1.6292+03	1.6882+03	1.7459+03	1.7807+03	1.8352+03	1.8692+03
7	1.5939+03	1.6552+03	1.7161+03	1.7528+03	1.8110+03	1.8457+03
8	1.5616+03	1.6250+03	1.6884+03	1.7273+03	1.7881+03	1.8229+03
9	1.5543+03	1.6237+03	1.6957+03	1.7371+03	1.8026+03	1.8413+03
10	1.5067+03	1.5771+03	1.6486+03	1.6911+03	1.7584+03	1.7964+03
11	1.4752+03	1.5492+03	1.6240+03	1.6691+03	1.7395+03	1.7788+03
12	1.5079+03	1.5859+03	1.6649+03	1.7112+03	1.7862+03	1.8281+03
13	1.5568+03	1.6379+03	1.7209+03	1.7680+03	1.8434+03	1.8846+03
14	1.6058+03	1.6924+03	1.7784+03	1.8281+03	1.9072+03	1.9292+03
15	1.6392+03	1.7285+03	1.8136+03	1.8641+03	1.9135+03	1.8826+03
16	1.6876+03	1.7819+03	1.8702+03	1.9217+03	1.8834+03	1.8919+03
17	1.7329+03	1.8291+03	1.9197+03	1.9025+03	1.8806+03	1.8892+03
18	1.7658+03	1.8591+03	1.9329+03	1.8773+03		1.8990+03
19	1.8092+03	1.9009+03	1.8966+03	1.8853+03		1.8979+03
20	1.8514+03	1.9246+03	1.8986+03	1.8881+03		1.9022+03
21	1.8809+03	1.9060+03	1.8990+03	1.8889+03		1.9049+03
22	1.9160+03	1.9015+03	1.9031+03	1.8917+03		1.9130+03
23	1.9387+03	1.8989+03	1.8987+03	1.8871+03	1.8923+03	1.9101+03
24	1.9222+03	1.9054+03	1.9057+03	1.8911+03	1.9009+03	1.9184+03
25	1.9180+03	1.9098+03	1.9088+03	1.8938+03		1.9193+03
26	1.8522+03	1.8552+03	1.8345+03	1.8313+03	1.8252+03	2.0029+03
27	1.8350+03	1.8648+03	1.8417+03	1.8367+03	1.8288+03	2.0220+03
28	1.6225+03	1.6610+03	1.6979+03	1.7277+03	1.7670+03	1.7706+03
29	1.5951+03	1.6367+03	1.6787+03	1.7095+03	1.7515+03	1.7215+03
30	1.5770+03	1.6206+03	1.6681+03	1.7001+03	1.7469+03	1.7232+03
31	1.5400+03	1.5851+03	1.6363+03	1.6684+03	1.7169+03	1.7394+03
32	1.5420+03	1.5938+03	1.6527+03	1.6911+03	1.7429+03	1.9130+03
33	1.5162+03	1.5713+03	1.6346+03	1.6764+03	1.7319+03	1.9365+03
34	1.5008+03	1.5598+03	1.6281+03	1.6717+03	1.7307+03	1.9568+03
35	1.4611+03	1.5203+03	1.5908+03	1.6356+03	1.6965+03	1.7998+03
36	1.4401+03	1.5011+03	1.5730+03	1.6186+03	1.6804+03	1.8107+03
37	1.4872+03	1.5553+03	1.6343+03	1.6847+03	1.7517+03	1.8102+03
38	1.5380+03	1.6121+03	1.6965+03	1.7498+03	1.8205+03	1.8008+03

100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	398	406	414	430	438	446
	TWO 19	TWO 20	TWO 21	TWO 23	TWO 24	TWO 25
1	1.7135+03	1.7315+03	1.7170+03	1.7059+03	1.7044+03	1.7031+03
2	1.7345+03	1.7186+03	1.7121+03	1.7156+03	1.7139+03	1.7141+03
3	1.7583+03	1.7306+03	1.7220+03	1.7247+03	1.7252+03	1.7254+03
4	1.7587+03	1.7321+03	1.7266+03	1.7271+03	1.7285+03	1.7298+03
5	1.9261+03	1.8754+03	2.0131+03	1.8718+03	1.8719+03	1.8688+03
6	1.9052+03	1.8769+03	2.0293+03	1.8725+03	1.8715+03	1.8694+03
7	1.9081+03	1.8748+03	2.0411+03	1.8733+03	1.8728+03	1.8703+03
8	1.9241+03	1.8847+03	2.0569+03	1.8757+03	1.8755+03	1.8708+03
9	1.9451+03	1.8827+03	2.0942+03	1.8771+03	1.8776+03	1.8740+03
10	1.9086+03	1.8873+03	2.0959+03	1.8769+03	1.8754+03	1.8725+03
11	1.8978+03	1.8912+03	2.1131+03	1.8788+03	1.8769+03	1.8739+03
12	1.9132+03	1.8823+03	2.1375+03	1.8795+03	1.8777+03	1.8757+03
13	1.9097+03	1.8869+03	1.8778+03	1.8813+03	1.8812+03	1.8792+03
14	1.9105+03	1.8900+03	1.8791+03	1.8835+03	1.8839+03	1.8811+03
15	1.9093+03	1.8884+03	1.8781+03	1.8823+03	1.8841+03	1.8813+03
16	1.9163+03	1.8927+03	1.8815+03	1.8847+03	1.8865+03	1.8851+03
17	1.9154+03	1.8928+03	1.8826+03	1.8879+03	1.8888+03	1.8870+03
18	1.9218+03	1.8961+03	1.8833+03	1.8895+03	1.8904+03	1.8878+03
19	1.9220+03	1.8973+03	1.8825+03	1.8903+03	1.8908+03	1.8886+03
20	1.9249+03	1.9001+03	1.8826+03	1.8922+03	1.8918+03	1.8911+03
21	1.9279+03	1.9018+03	1.8821+03	1.8928+03	1.8933+03	1.8922+03
22	1.9321+03	1.9041+03		1.8978+03	1.8966+03	1.8965+03
23	1.9304+03	1.9043+03		1.8966+03	1.8963+03	1.8962+03
24	1.9393+03	1.9099+03	1.8881+03	1.9044+03	1.9050+03	1.9027+03
25	1.9420+03	1.9126+03		1.9048+03	1.9045+03	1.9082+03
26	1.8532+03		2.1083+03	1.8329+03	1.8308+03	1.8293+03
27	1.8599+03		1.8361+03	1.8396+03	1.8368+03	1.8349+03
28	1.8486+03			1.8284+03	1.8265+03	1.8240+03
29	1.8394+03			1.8298+03	1.8273+03	1.8251+03
30	1.8421+03			1.8303+03	1.8284+03	1.8256+03
31	1.8183+03			1.8307+03	1.8283+03	1.8260+03
32	1.8555+03		1.8313+03	1.8343+03	1.8319+03	1.8288+03
33	1.8503+03		1.8325+03	1.8345+03	1.8322+03	1.8302+03
34	1.8580+03		1.8335+03	1.8362+03	1.8337+03	1.8314+03
35	1.8328+03		1.8507+03	1.8358+03	1.8334+03	1.8329+03
36	1.8201+03		1.8536+03	1.8376+03	1.8349+03	1.8322+03
37	1.8938+03		1.8184+03	1.8383+03	1.8350+03	1.8332+03
38	1.8678+03		1.8825+03	1.8413+03	1.8386+03	1.8378+03

100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	454	462	470	478	509	516
	TWO 26	TWO 27	TB OUT	TB OUT	CND IN	CND 37
1	1.6987+03	1.6991+03	1.6694+03	1.6680+03	1.6658+03	1.6687+03
2	1.7085+03	1.7096+03	1.6709+03	1.6694+03	1.6666+03	1.6694+03
3	1.7202+03	1.7197+03	1.6739+03	1.6713+03	1.6699+03	1.6714+03
4	1.7239+03	1.7225+03	1.6763+03	1.6744+03	1.6747+03	1.6764+03
5	1.8636+03	1.8656+03	1.8367+03	1.8351+03	1.8287+03	1.8323+03
6	1.8643+03	1.8655+03	1.8361+03	1.8346+03	1.8305+03	1.8343+03
7	1.8648+03	1.8668+03	1.8373+03	1.8352+03	1.8309+03	1.8345+03
8	1.8673+03	1.8687+03	1.8376+03	1.8358+03	1.8317+03	1.8352+03
9	1.8686+03	1.8699+03	1.8371+03	1.8356+03	1.8321+03	1.8353+03
10	1.8674+03	1.8672+03	1.8376+03	1.8360+03	1.8320+03	1.8355+03
11	1.8693+03	1.8705+03	1.8370+03	1.8355+03	1.8311+03	1.8346+03
12	1.8702+03	1.8710+03	1.8366+03	1.8351+03	1.8309+03	1.8341+03
13	1.8737+03	1.8739+03	1.8376+03	1.8360+03	1.8344+03	1.8367+03
14	1.8769+03	1.8772+03	1.8387+03	1.8372+03	1.8337+03	1.8366+03
15	1.8762+03	1.8766+03	1.8370+03	1.8355+03	1.8324+03	1.8355+03
16	1.8774+03	1.8810+03	1.8398+03	1.8379+03	1.8356+03	1.8387+03
17	1.8821+03	1.8821+03	1.8403+03	1.8388+03	1.8361+03	1.8393+03
18	1.8819+03	1.8825+03	1.8403+03	1.8381+03	1.8352+03	1.8381+03
19	1.8837+03	1.8815+03	1.8391+03	1.8372+03	1.8347+03	1.8375+03
20	1.8861+03	1.8845+03	1.8394+03	1.8376+03	1.8372+03	1.7488+03
21	1.8868+03	1.8856+03	1.8395+03	1.8378+03	1.8366+03	1.8392+03
22	1.8907+03	1.8902+03	1.8415+03	1.8399+03	1.8381+03	1.8402+03
23	1.8895+03	1.8885+03	1.8386+03	1.8367+03	1.8358+03	1.8377+03
24	1.8978+03	1.8969+03	1.8426+03	1.8408+03	1.8403+03	1.8420+03
25	1.8969+03	1.8965+03	1.8426+03	1.8409+03	1.8402+03	1.8420+03
26	1.8272+03	1.8285+03	1.7983+03	1.7972+03	1.7984+03	1.8005+03
27	1.8330+03	1.8342+03	1.8029+03	1.8016+03	1.7995+03	1.8034+03
28	1.8217+03	1.8242+03	1.8009+03	1.7984+03	1.7973+03	1.7959+03
29	1.8228+03	1.8249+03	1.8007+03	1.7982+03	1.7984+03	1.7988+03
30	1.8227+03	1.8250+03	1.8003+03	1.7978+03	1.7972+03	1.7995+03
31	1.8235+03	1.8254+03	1.8000+03	1.7975+03	1.7964+03	1.7973+03
32	1.8269+03	1.8273+03	1.8007+03	1.7990+03	1.7964+03	1.7995+03
33	1.8274+03	1.8285+03	1.8006+03	1.7989+03	1.7971+03	1.8005+03
34	1.8292+03	1.8304+03	1.8011+03	1.7995+03	1.7977+03	1.8008+03
35	1.8291+03	1.8301+03	1.7996+03	1.7979+03	1.7951+03	1.7988+03
36	1.8302+03	1.8310+03	1.7995+03	1.7978+03	1.7960+03	1.7996+03
37	1.8317+03	1.8318+03	1.7997+03	1.7980+03	1.7957+03	1.7995+03
38	1.8345+03	1.8354+03	1.8020+03	1.8002+03	1.7978+03	1.8009+03

## 100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	523	530	537	544	551	558
	CND 38	CND 39	CND 40	CND 41	CND 42	CND 43
1	1.6365+03	1.5542+03	1.4803+03	1.4255+03	1.3731+03	1.3265+03
2	1.6597+03	1.6629+03	1.6247+03	1.5482+03	1.4829+03	1.4239+03
3	1.6586+03	1.6645+03	1.6614+03	1.6622+03	1.6676+03	1.6680+03
4	1.6629+03	1.6690+03	1.6662+03	1.6675+03	1.6723+03	1.6726+03
5	1.7026+03	1.5677+03	1.4562+03	1.3780+03	1.3082+03	1.2503+03
6	1.7248+03	1.5832+03	1.4663+03	1.3871+03	1.3167+03	1.2581+03
7	1.7183+03	1.5769+03	1.4618+03	1.3828+03	1.3129+03	1.2545+03
8	1.7071+03	1.5705+03	1.4582+03	1.3816+03	1.3137+03	1.2556+03
9	1.7654+03	1.6114+03	1.4876+03	1.4047+03	1.3324+03	1.2721+03
10	1.7111+03	1.5738+03	1.4623+03	1.3856+03	1.3174+03	1.2596+03
11	1.7167+03	1.5784+03	1.4648+03	1.3870+03	1.3181+03	1.2599+03
12	1.7758+03	1.6237+03	1.5005+03	1.4172+03	1.3441+03	1.2842+03
13	1.8248+03	1.7016+03	1.5568+03	1.4659+03	1.3860+03	1.3199+03
14	1.8242+03	1.7999+03	1.6249+03	1.5200+03	1.4308+03	1.3576+03
15	1.8234+03	1.8282+03	1.6726+03	1.5549+03	1.4595+03	1.3826+03
16	1.8263+03	1.8316+03	1.7656+03	1.6292+03	1.5133+03	1.4283+03
17	1.8253+03	1.8327+03	1.8283+03	1.7072+03	1.5748+03	1.4762+03
18	1.8235+03	1.8308+03	1.8275+03	1.7681+03	1.6188+03	1.5109+03
19	1.8222+03	1.8300+03	1.8259+03	1.8250+03	1.6835+03	1.5591+03
20	1.7316+03	1.7405+03	1.7362+03	1.7350+03	1.7233+03	1.6541+03
21	1.8211+03	1.8311+03	1.8266+03	1.8257+03	1.8342+03	1.6939+03
22	1.8210+03	1.8325+03	1.8262+03	1.8258+03	1.8361+03	1.8001+03
23	1.8180+03	1.8296+03	1.8233+03	1.8229+03	1.8335+03	1.8335+03
24	1.8226+03	1.8337+03	1.8274+03	1.8271+03	1.8377+03	1.8377+03
25	1.8235+03	1.8323+03	1.8271+03	1.8263+03	1.8372+03	1.8380+03
26	1.7936+03	1.7953+03	1.6879+03	1.5632+03	1.4593+03	1.3783+03
27	1.7956+03	1.7983+03	1.6987+03	1.5699+03	1.4662+03	1.3851+03
28	1.5614+03	1.4543+03	1.3608+03	1.2959+03	1.2343+03	1.1840+03
29	1.5657+03	1.4577+03	1.3635+03	1.2977+03	1.2373+03	1.1862+03
30	1.5773+03	1.4646+03	1.3691+03	1.3028+03	1.2413+03	1.1896+03
31	1.5674+03	1.4594+03	1.3657+03	1.3003+03	1.2397+03	1.1884+03
32	1.6152+03	1.4931+03	1.3945+03	1.3256+03	1.2616+03	1.2083+03
33	1.6232+03	1.5000+03	1.4006+03	1.3307+03	1.2659+03	1.2120+03
34	1.6382+03	1.5142+03	1.4115+03	1.3403+03	1.2745+03	1.2201+03
35	1.6230+03	1.5034+03	1.4039+03	1.3347+03	1.2711+03	1.2177+03
36	1.6287+03	1.5072+03	1.4056+03	1.3361+03	1.2731+03	1.2202+03
37	1.7053+03	1.5675+03	1.4536+03	1.3767+03	1.3089+03	1.2515+03
38	1.7890+03	1.6501+03	1.5143+03	1.4285+03	1.3515+03	1.2891+03



100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	565	572	579	586	593	600
	CND 44	CND 45	CND 46	CND 47	CNDDIS	PUMPIN
1	1.2851+03	1.2506+03	1.2153+03	1.1853+03	1.1453+03	1.0572+03
2	1.3730+03	1.3316+03	1.2895+03	1.2539+03	1.2063+03	1.1024+03
3	1.6663+03	1.6087+03	1.5298+03	1.4672+03	1.3887+03	1.2307+03
4	1.6713+03	1.6636+03	1.5787+03	1.5137+03	1.4236+03	1.2567+03
5	1.2010+03	1.1620+03	1.1242+03	1.0918+03	1.0476+03	9.4661+02
6	1.2075+03	1.1676+03	1.1285+03	1.0963+03	1.0527+03	9.4968+02
7	1.2043+03	1.1646+03	1.1264+03	1.0943+03	1.0500+03	9.5012+02
8	1.2059+03	1.1667+03	1.1288+03	1.0973+03	1.0537+03	9.5352+02
9	1.2206+03	1.1795+03	1.1404+03	1.1079+03	1.0633+03	9.6072+02
10	1.2094+03	1.1706+03	1.1325+03	1.1017+03	1.0583+03	9.5766+02
11	1.2102+03	1.1705+03	1.1319+03	1.1003+03	1.0567+03	9.5582+02
12	1.2322+03	1.1903+03	1.1508+03	1.1180+03	1.0730+03	9.6906+02
13	1.2643+03	1.2203+03	1.1773+03	1.1425+03	1.0961+03	9.8642+02
14	1.2971+03	1.2496+03	1.2027+03	1.1647+03	1.1153+03	9.9853+02
15	1.3187+03	1.2697+03	1.2220+03	1.1828+03	1.1314+03	1.0096+03
16	1.3579+03	1.3040+03	1.2515+03	1.2078+03	1.1518+03	1.0270+03
17	1.3984+03	1.3387+03	1.2826+03	1.2366+03	1.1757+03	1.0428+03
18	1.4277+03	1.3658+03	1.3067+03	1.2588+03	1.1960+03	1.0585+03
19	1.4666+03	1.3990+03	1.3357+03	1.2850+03	1.2180+03	1.0718+03
20	1.5304+03	1.4442+03	1.3703+03	1.3134+03	1.2413+03	1.0839+03
21	1.5640+03	1.4757+03	1.3973+03	1.3371+03	1.2613+03	1.0982+03
22	1.6404+03	1.5355+03	1.4466+03	1.3779+03	1.2951+03	1.1194+03
23	1.7009+03	1.5839+03	1.4839+03	1.4074+03	1.3168+03	1.1291+03
24	1.8337+03	1.6897+03	1.5582+03	1.4669+03	1.3633+03	1.1568+03
25	1.8364+03	1.7655+03	1.6152+03	1.5098+03	1.3960+03	1.1783+03
26	1.3130+03	1.2620+03	1.2127+03	1.1728+03	1.1213+03	1.0038+03
27	1.3188+03	1.2682+03	1.2186+03	1.1771+03	1.1260+03	1.0052+03
28	1.1406+03	1.1064+03	1.0714+03	1.0416+03	1.0020+03	9.1534+02
29	1.1431+03	1.1084+03	1.0732+03	1.0436+03	1.0043+03	9.1723+02
30	1.1457+03	1.1109+03	1.0758+03	1.0461+03	1.0061+03	9.1819+02
31	1.1451+03	1.1107+03	1.0758+03	1.0463+03	1.0065+03	9.1934+02
32	1.1626+03	1.1268+03	1.0910+03	1.0600+03	1.0192+03	9.2747+02
33	1.1659+03	1.1296+03	1.0936+03	1.0627+03	1.0206+03	9.2958+02
34	1.1732+03	1.1364+03	1.1002+03	1.0692+03	1.0271+03	9.3422+02
35	1.1711+03	1.1348+03	1.0994+03	1.0680+03	1.0264+03	9.3342+02
36	1.1735+03	1.1377+03	1.1020+03	1.0712+03	1.0297+03	9.3466+02
37	1.2014+03	1.1621+03	1.1241+03	1.0923+03	1.0492+03	9.4938+02
38	1.2348+03	1.1922+03	1.1516+03	1.1176+03	1.0724+03	9.6641+02

## 100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	607	614	621	628	635	642
	TRADTR	TRADTL	TRADMR	TRADML	TRADBR	TRADBL
1	9.5595+02	9.5583+02	9.5331+02	9.5607+02	8.8785+02	8.9030+02
2	1.0032+03	1.0031+03	1.0044+03	1.0081+03	9.3522+02	9.3780+02
3	1.0912+03	1.0910+03	1.0986+03	1.1047+03	1.0237+03	1.0263+03
4	1.1027+03	1.1026+03	1.1120+03	1.1185+03	1.0371+03	1.0397+03
5	9.3934+02	9.3918+02	1.0309+03	9.4067+02	8.7235+02	8.7382+02
6	9.5060+02	9.5047+02	9.4971+02	9.5283+02	8.8202+02	8.8370+02
7	9.5708+02	9.5695+02	9.5542+02	9.5816+02	8.8576+02	8.8734+02
8	9.6360+02	9.6348+02	9.6148+02	9.6376+02	8.9027+02	8.9177+02
9	9.8364+02	9.8351+02	9.8285+02	9.8530+02	9.0791+02	9.0967+02
10	9.7888+02	9.7877+02	9.7696+02	9.7897+02	9.0192+02	9.0446+02
11	9.8648+02	9.8640+02	9.8477+02	9.8653+02	9.0752+02	9.0914+02
12	1.0010+03	1.0009+03	1.0004+03	1.0024+03	9.2137+02	9.2308+02
13	1.0207+03	1.0206+03	1.0240+03	1.0285+03	9.4166+02	9.4343+02
14	1.0406+03	1.0405+03	1.0456+03	1.0506+03	9.6049+02	9.6222+02
15	1.0527+03	1.0526+03	1.0583+03	1.0634+03	9.7239+02	9.7395+02
16	1.0733+03	1.0732+03	1.0807+03	1.0867+03	9.9199+02	9.9372+02
17	1.0911+03	1.0909+03	1.0998+03	1.1060+03	1.0095+03	1.0114+03
18	1.1011+03	1.1009+03	1.1123+03	1.1203+03	1.0212+03	1.0230+03
19	1.1139+03	1.1138+03	1.1272+03	1.1355+03	1.0357+03	1.0375+03
20	1.1318+03	1.1317+03	1.1468+03	1.1557+03	1.0541+03	1.0557+03
21	1.1403+03	1.1401+03	1.1571+03	1.1661+03	1.0628+03	1.0643+03
22	1.1541+03	1.1540+03	1.1755+03	1.1870+03	1.0826+03	1.0826+03
23	1.1605+03	1.1603+03	1.1831+03	1.1940+03	1.0917+03	1.0915+03
24	1.1776+03	1.1774+03	1.2024+03	1.2139+03	1.1113+03	1.1111+03
25	1.1834+03	1.1832+03	1.2126+03	1.2229+03	1.1216+03	1.1199+03
26	1.0140+03	1.0139+03	1.0183+03	1.0204+03	9.4213+02	9.3949+02
27	1.0264+03	1.0263+03	1.0313+03	1.0334+03	9.5157+02	9.4913+02
28	8.7937+02	8.7924+02	8.7963+02	8.8065+02	8.1790+02	8.1456+02
29	8.9220+02	8.9207+02	8.9214+02	8.9267+02	8.2627+02	8.2304+02
30	9.0493+02	9.0480+02	9.0574+02	9.0618+02	8.3652+02	8.3330+02
31	9.1262+02	9.1251+02	9.1341+02	9.1378+02	8.4123+02	8.3861+02
32	9.3765+02	9.3752+02	9.4195+02	9.3976+02	8.6412+02	8.6091+02
33	9.4921+02	9.4911+02	9.5354+02	9.5111+02	8.7276+02	8.6958+02
34	9.6246+02	9.6238+02	9.6738+02	9.6499+02	8.8371+02	8.8076+02
35	9.6430+02	9.6419+02	9.6991+02	9.6730+02	8.8437+02	8.8128+02
36	9.7288+02	9.7281+02	9.7832+02	9.7549+02	8.9110+02	8.8787+02
37	9.9499+02	9.9488+02	1.0025+03	9.9981+02	9.1266+02	9.0943+02
38	1.0198+03	1.0197+03	1.0294+03	1.0272+03	9.3588+02	9.3286+02

## 100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	663	799	819	823	839	842
	PHCASE	QN PH	QN B	Q/A	FLOW	G
1	7.8807+02	9.4860-01	1.0460+01	7.3499+04	6.9494-02	8.3315+04
2	8.0245+02	9.3080-01	1.2541+01	8.8124+04	6.9563-02	8.3398+04
3	8.3979+02	9.5950-01	1.6793+01	1.1800+05	6.9986-02	8.3905+04
4	8.4392+02	9.4970-01	1.7444+01	1.2257+05	7.0600-02	8.4641+04
5	1.0399+03	3.9280+00	8.7215+00	6.1282+04	4.6408-02	5.5637+04
6	1.0212+03	3.4650+00	9.3783+00	6.5898+04	4.6446-02	5.5683+04
7	9.8276+02	2.9244+00	9.7579+00	6.8565+04	4.6068-02	5.5231+04
8	9.4561+02	2.4750+00	1.0045+01	7.0583+04	4.6413-02	5.5644+04
9	9.0071+02	1.9350+00	1.0842+01	7.6180+04	4.6434-02	5.5669+04
10	8.4998+02	1.5130+00	1.0902+01	7.6604+04	4.6390-02	5.5616+04
11	7.7666+02	9.3850-01	1.1267+01	7.9166+04	4.6366-02	5.5588+04
12	7.7981+02	9.1040-01	1.2111+01	8.5098+04	4.6419-02	5.5651+04
13	7.9192+02	9.7000-01	1.2820+01	9.0082+04	4.6522-02	5.5775+04
14	7.9753+02	9.5550-01	1.3753+01	9.6638+04	4.6620-02	5.5892+04
15	8.0162+02	9.5205-01	1.4586+01	1.0249+05	4.6368-02	5.5589+04
16	8.0880+02	9.4860-01	1.5482+01	1.0878+05	4.6462-02	5.5702+04
17	8.1515+02	9.4860-01	1.6086+01	1.1303+05	4.6212-02	5.5403+04
18	8.2731+02	9.3080-01	1.6844+01	1.1835+05	4.7022-02	5.6374+04
19	8.3500+02	9.6300-01	1.7569+01	1.2345+05	4.7129-02	5.6502+04
20	8.3958+02	9.4860-01	1.8492+01	1.2994+05	4.6490-02	5.5735+04
21	8.4437+02	9.6300-01	1.9246+01	1.3523+05	4.6564-02	5.5825+04
22	8.4804+02	9.4900-01	2.0016+01	1.4064+05	4.6693-02	5.5979+04
23	8.5233+02	9.2400-01	2.0795+01	1.4612+05	4.6398-02	5.5625+04
24	8.6227+02	9.2400-01	2.2146+01	1.5561+05	4.6523-02	5.5775+04
25	8.6858+02	9.4440-01	2.2554+01	1.5848+05	4.6972-02	5.6314+04
26	1.1384+03	5.0514+00	1.0628+01	7.4678+04	4.6841-02	5.6156+04
27	1.1093+03	4.5063+00	1.1446+01	8.0426+04	4.6839-02	5.6154+04
28	1.1083+03	4.8870+00	6.0864+00	4.2766+04	4.6662-02	5.5942+04
29	1.0762+03	4.4390+00	6.5512+00	4.6033+04	4.6296-02	5.5503+04
30	1.0493+03	3.8918+00	6.9409+00	4.8771+04	4.6290-02	5.5497+04
31	1.0140+03	3.4650+00	7.4065+00	5.2042+04	4.6273-02	5.5476+04
32	9.7536+02	2.9895+00	8.3967+00	5.9000+04	4.6303-02	5.5511+04
33	9.3601+02	2.5027+00	8.9274+00	6.2729+04	4.6118-02	5.5290+04
34	8.9260+02	1.9690+00	9.5364+00	6.7008+04	4.5950-02	5.5088+04
35	8.3079+02	1.3980+00	9.7877+00	6.8774+04	4.6242-02	5.5439+04
36	7.7364+02	9.5550-01	1.0191+01	7.1611+04	4.6253-02	5.5452+04
37	7.7860+02	9.4970-01	1.1102+01	7.8010+04	4.6328-02	5.5542+04
38	7.8563+02	9.4100-01	1.2083+01	8.4905+04	4.6065-02	5.5226+04

## 100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	853	855	858	859	1003	1010
	X OUT	EB OUT	VELOUT	P SAT	TWI 8	TWI 9
1	5.4878-02	4.4945+02	1.2787+01	4.9151+01	1.1920+03	1.2250+03
2	1.0148-01	4.8608+02	2.3532+01	4.9434+01	1.2418+03	1.2791+03
3	2.0309-01	5.6571+02	4.6910+01	4.9920+01	1.3713+03	1.4210+03
4	2.1829-01	5.7798+02	5.0322+01	5.0449+01	1.4010+03	1.4484+03
5	9.2148-02	5.1074+02	7.9109+00	9.0987+01	1.3388+03	1.3771+03
6	1.0235-01	5.1813+02	8.8084+00	9.0819+01	1.3107+03	1.3505+03
7	1.0149-01	5.1766+02	8.6417+00	9.1078+01	1.2585+03	1.3013+03
8	9.6000-02	5.1372+02	8.2230+00	9.1229+01	1.2144+03	1.2586+03
9	1.0780-01	5.2232+02	9.2468+00	9.1129+01	1.1734+03	1.2239+03
10	9.8314-02	5.1544+02	8.4145+00	9.1259+01	1.1275+03	1.1752+03
11	9.7320-02	5.1460+02	8.3389+00	9.1092+01	1.0821+03	1.1328+03
12	1.2348-01	5.3373+02	1.0606+01	9.0966+01	1.0951+03	1.1462+03
13	1.4937-01	5.5290+02	1.2821+01	9.1257+01	1.1208+03	1.1754+03
14	1.7744-01	5.7370+02	1.5208+01	9.1620+01	1.1362+03	1.1946+03
15	2.0612-01	5.9446+02	1.7662+01	9.1089+01	1.1505+03	1.2099+03
16	2.3245-01	6.1419+02	1.9802+01	9.1896+01	1.1642+03	1.2292+03
17	2.5559-01	6.3126+02	2.1612+01	9.2111+01	1.1836+03	1.2516+03
18	2.7197-01	6.4321+02	2.3427+01	9.1991+01	1.1999+03	1.2702+03
19	2.9421-01	6.5937+02	2.5479+01	9.1673+01	1.2166+03	1.2898+03
20	3.2887-01	6.8484+02	2.8062+01	9.1789+01	1.2292+03	1.3067+03
21	3.5199-01	7.0181+02	3.0068+01	9.1839+01	1.2416+03	1.3199+03
22	3.7794-01	7.2106+02	3.2156+01	9.2474+01	1.2710+03	1.3508+03
23	4.0482-01	7.4045+02	3.4569+01	9.1511+01	1.2787+03	1.3637+03
24	4.4554-01	7.7066+02	3.7624+01	9.2787+01	1.3030+03	1.3915+03
25	4.5800-01	7.7979+02	3.9036+01	9.2814+01	1.3307+03	1.4200+03
26	1.9367-01	5.7900+02	1.8964+01	7.9654+01	1.5058+03	1.5491+03
27	2.0357-01	5.8710+02	1.9631+01	8.0932+01	1.4648+03	1.5104+03
28	4.8950-02	4.7153+02	4.7444+00	8.0175+01	1.4127+03	1.4388+03
29	5.0231-02	4.7245+02	4.8334+00	8.0124+01	1.3651+03	1.3938+03
30	5.0736-02	4.7274+02	4.8885+00	8.0006+01	1.3277+03	1.3587+03
31	5.0068-02	4.7219+02	4.8265+00	7.9936+01	1.2746+03	1.3095+03
32	6.7542-02	4.8543+02	6.4903+00	8.0245+01	1.2405+03	1.2796+03
33	7.1352-02	4.8824+02	6.8321+00	8.0209+01	1.1937+03	1.2367+03
34	7.9201-02	4.9419+02	7.5429+00	8.0355+01	1.1535+03	1.1991+03
35	7.4251-02	4.9020+02	7.1525+00	7.9940+01	1.1091+03	1.1521+03
36	7.6681-02	4.9199+02	7.3909+00	7.9912+01	1.0757+03	1.1212+03
37	1.0431-01	5.1261+02	1.0065+01	7.9961+01	1.0906+03	1.1393+03
38	1.3648-01	5.3698+02	1.2993+01	8.0603+01	1.1080+03	1.1612+03

# 100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	1017	1024	1031	1038	1045	1052
	TWI 10	TWI 11	TWI 12	TWI 13	TWI 14	TWI 15
1	1.3382+03	1.3815+03	1.4108+03	1.4545+03	1.5007+03	1.5274+03
2	1.4118+03	1.4615+03	1.4942+03	1.5473+03	1.6020+03	1.6336+03
3	1.5924+03	1.6590+03	1.7027+03	1.7408+03	1.6892+03	1.6807+03
4	1.6273+03	1.6921+03	1.7333+03	1.6889+03	1.6888+03	1.6820+03
5	1.5109+03	1.5741+03	1.6194+03	1.6750+03	1.7294+03	1.7623+03
6	1.4917+03	1.5592+03	1.6079+03	1.6670+03	1.7247+03	1.7596+03
7	1.4497+03	1.5198+03	1.5717+03	1.6331+03	1.6940+03	1.7308+03
8	1.4127+03	1.4849+03	1.5387+03	1.6022+03	1.6656+03	1.7047+03
9	1.3906+03	1.4703+03	1.5296+03	1.5990+03	1.6712+03	1.7126+03
10	1.3428+03	1.4244+03	1.4818+03	1.5523+03	1.6239+03	1.6665+03
11	1.3046+03	1.3897+03	1.4493+03	1.5234+03	1.5984+03	1.6436+03
12	1.3290+03	1.4188+03	1.4802+03	1.5583+03	1.6375+03	1.6839+03
13	1.3660+03	1.4607+03	1.5275+03	1.6087+03	1.6919+03	1.7391+03
14	1.4000+03	1.5020+03	1.5745+03	1.6613+03	1.7475+03	1.7973+03
15	1.4225+03	1.5312+03	1.6060+03	1.6956+03	1.7808+03	1.8315+03
16	1.4550+03	1.5721+03	1.6525+03	1.7471+03	1.8356+03	1.8872+03
17	1.4887+03	1.6133+03	1.6965+03	1.7930+03	1.8838+03	1.8666+03
18	1.5134+03	1.6444+03	1.7278+03	1.8214+03	1.8954+03	1.8397+03
19	1.5425+03	1.6833+03	1.7698+03	1.8617+03	1.8574+03	1.8460+03
20	1.5726+03	1.7195+03	1.8100+03	1.8834+03	1.8573+03	1.8468+03
21	1.5941+03	1.7478+03	1.8379+03	1.8631+03	1.8560+03	1.8459+03
22	1.6318+03	1.7846+03	1.8714+03	1.8568+03	1.8584+03	1.8470+03
23	1.6575+03	1.8177+03	1.8924+03	1.8525+03	1.8523+03	1.8407+03
24	1.6985+03	1.8602+03	1.8728+03	1.8559+03	1.8562+03	1.8416+03
25	1.7277+03	1.8859+03	1.8677+03	1.8595+03	1.8585+03	1.8434+03
26	1.7076+03	1.7829+03	1.8284+03	1.8314+03	1.8106+03	1.8074+03
27	1.6796+03	1.7605+03	1.8093+03	1.8391+03	1.8160+03	1.8110+03
28	1.5329+03	1.5803+03	1.6087+03	1.6472+03	1.6841+03	1.7140+03
29	1.4990+03	1.5495+03	1.5802+03	1.6218+03	1.6639+03	1.6947+03
30	1.4734+03	1.5278+03	1.5611+03	1.6048+03	1.6524+03	1.6844+03
31	1.4294+03	1.4856+03	1.5231+03	1.5682+03	1.6195+03	1.6516+03
32	1.4164+03	1.4805+03	1.5228+03	1.5747+03	1.6337+03	1.6721+03
33	1.3818+03	1.4506+03	1.4958+03	1.5509+03	1.6143+03	1.6562+03
34	1.3543+03	1.4302+03	1.4789+03	1.5380+03	1.6064+03	1.6501+03
35	1.3110+03	1.3898+03	1.4386+03	1.4979+03	1.5685+03	1.6134+03
36	1.2835+03	1.3651+03	1.4166+03	1.4777+03	1.5497+03	1.5954+03
37	1.3167+03	1.4064+03	1.4618+03	1.5300+03	1.6091+03	1.6595+03
38	1.3527+03	1.4510+03	1.5104+03	1.5846+03	1.6692+03	1.7225+03

100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	1059	1066	1080	1087	1094	1108
	TWI 16	TWI 17	TWI 19	TWI 20	TWI 21	TWI 23
1	1.5727+03	1.6003+03	1.6899+03	1.7079+03	1.6934+03	1.6822+03
2	1.6855+03	1.7169+03	1.7062+03	1.6905+03	1.6837+03	1.6873+03
3	1.6815+03	1.6926+03	1.7204+03	1.6927+03	1.6840+03	1.6868+03
4	1.6842+03	1.6912+03	1.7194+03	1.6927+03	1.6872+03	1.6877+03
5	1.8137+03	1.8476+03	1.9067+03	1.8559+03	1.9938+03	1.8523+03
6	1.8142+03	1.8482+03	1.8843+03	1.8559+03	2.0085+03	1.8515+03
7	1.7891+03	1.8239+03	1.8864+03	1.8530+03	2.0195+03	1.8515+03
8	1.7655+03	1.8004+03	1.9017+03	1.8623+03	2.0347+03	1.8533+03
9	1.7782+03	1.8170+03	1.9210+03	1.8585+03	2.0703+03	1.8528+03
10	1.7338+03	1.7719+03	1.8843+03	1.8629+03	2.0719+03	1.8525+03
11	1.7140+03	1.7535+03	1.8726+03	1.8660+03	2.0883+03	1.8536+03
12	1.7590+03	1.8009+03	1.8862+03	1.8552+03	2.1109+03	1.8525+03
13	1.8147+03	1.8560+03	1.8811+03	1.8583+03	1.8491+03	1.8526+03
14	1.8765+03	1.8986+03	1.8798+03	1.8593+03	1.8483+03	1.8528+03
15	1.8810+03	1.8500+03	1.8767+03	1.8558+03	1.8455+03	1.8497+03
16	1.8488+03	1.8574+03	1.8817+03	1.8581+03	1.8469+03	1.8501+03
17	1.8446+03	1.8532+03	1.8796+03	1.8569+03	1.8467+03	1.8519+03
18		1.8614+03	1.8843+03	1.8584+03	1.8456+03	1.8519+03
19		1.8587+03	1.8829+03	1.8580+03	1.8432+03	1.8511+03
20		1.8609+03	1.8837+03	1.8588+03	1.8412+03	1.8509+03
21		1.8620+03	1.8850+03	1.8588+03	1.8391+03	1.8498+03
22		1.8683+03	1.8875+03	1.8595+03		1.8531+03
23	1.8459+03	1.8637+03	1.8841+03	1.8579+03		1.8502+03
24	1.8515+03	1.8690+03	1.8899+03	1.8605+03	1.8386+03	1.8550+03
25		1.8690+03	1.8918+03	1.8623+03		1.8545+03
26	1.8014+03	1.9793+03	1.8294+03		2.0849+03	1.8091+03
27	1.8031+03	1.9967+03	1.8343+03		1.8104+03	1.8139+03
28	1.7533+03	1.7569+03	1.8349+03			1.8147+03
29	1.7368+03	1.7067+03	1.8247+03			1.8151+03
30	1.7313+03	1.7075+03	1.8266+03			1.8147+03
31	1.7002+03	1.7227+03	1.8017+03			1.8141+03
32	1.7240+03	1.8942+03	1.8367+03		1.8125+03	1.8154+03
33	1.7118+03	1.9166+03	1.8303+03		1.8125+03	1.8145+03
34	1.7092+03	1.9356+03	1.8366+03		1.8121+03	1.8148+03
35	1.6744+03	1.7778+03	1.8109+03		1.8287+03	1.8138+03
36	1.6573+03	1.7878+03	1.7973+03		1.8307+03	1.8147+03
37	1.7267+03	1.7853+03	1.8690+03		1.7935+03	1.8134+03
38	1.7934+03	1.7737+03	1.8408+03		1.8555+03	1.8142+03

100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	1115	1122	1129	1136	1137	1138
	TWI 24	TWI 25	TWI 26	TWI 27	DT 27	H 27
1	1.6808+03	1.6794+03	1.6751+03	1.6754+03	6.7373+00	1.0909+04
2	1.6856+03	1.6858+03	1.6801+03	1.6812+03	1.1104+01	7.9362+03
3	1.6873+03	1.6875+03	1.6823+03	1.6818+03	9.1418+00	1.2907+04
4	1.6891+03	1.6905+03	1.6845+03	1.6831+03	7.7443+00	1.5828+04
5	1.8524+03	1.8493+03	1.8440+03	1.8461+03	1.0160+01	6.0316+03
6	1.8505+03	1.8485+03	1.8433+03	1.8445+03	9.1509+00	7.2012+03
7	1.8510+03	1.8485+03	1.8429+03	1.8450+03	8.8064+00	7.7858+03
8	1.8530+03	1.8484+03	1.8448+03	1.8462+03	9.4929+00	7.4353+03
9	1.8533+03	1.8497+03	1.8443+03	1.8457+03	9.2866+00	8.2033+03
10	1.8510+03	1.8481+03	1.8430+03	1.8428+03	6.0434+00	1.2676+04
11	1.8517+03	1.8487+03	1.8441+03	1.8453+03	9.0111+00	8.7853+03
12	1.8506+03	1.8486+03	1.8431+03	1.8439+03	8.0556+00	1.0564+04
13	1.8526+03	1.8506+03	1.8450+03	1.8453+03	8.4731+00	1.0632+04
14	1.8532+03	1.8503+03	1.8461+03	1.8465+03	8.4816+00	1.1394+04
15	1.8515+03	1.8487+03	1.8436+03	1.8440+03	7.7131+00	1.3287+04
16	1.8520+03	1.8505+03	1.8428+03	1.8464+03	7.5192+00	1.4467+04
17	1.8529+03	1.8511+03	1.8461+03	1.8462+03	6.5909+00	1.7150+04
18	1.8528+03	1.8502+03	1.8443+03	1.8449+03	5.6791+00	2.0840+04
19	1.8516+03	1.8494+03	1.8444+03	1.8422+03	4.0955+00	3.0143+04
20	1.8505+03	1.8498+03	1.8448+03	1.8432+03	4.6336+00	2.8042+04
21	1.8503+03	1.8492+03	1.8438+03	1.8426+03	3.9499+00	3.4237+04
22	1.8519+03	1.8518+03	1.8460+03	1.8455+03	4.7770+00	2.9442+04
23	1.8498+03	1.8498+03	1.8431+03	1.8421+03	4.4510+00	3.2829+04
24	1.8556+03	1.8533+03	1.8484+03	1.8474+03	5.7436+00	2.7094+04
25	1.8542+03	1.8578+03	1.8466+03	1.8461+03	4.3467+00	3.6460+04
26	1.8070+03	1.8055+03	1.8034+03	1.8047+03	6.9299+00	1.0776+04
27	1.8112+03	1.8092+03	1.8073+03	1.8086+03	6.3200+00	1.2726+04
28	1.8128+03	1.8103+03	1.8081+03	1.8106+03	1.0947+01	3.9065+03
29	1.8126+03	1.8104+03	1.8081+03	1.8102+03	1.0789+01	4.2665+03
30	1.8128+03	1.8100+03	1.8071+03	1.8094+03	1.0391+01	4.6937+03
31	1.8117+03	1.8094+03	1.8069+03	1.8087+03	9.9715+00	5.2191+03
32	1.8131+03	1.8100+03	1.8081+03	1.8085+03	8.6073+00	6.8547+03
33	1.8122+03	1.8102+03	1.8073+03	1.8084+03	8.6747+00	7.2313+03
34	1.8123+03	1.8100+03	1.8078+03	1.8090+03	8.7388+00	7.6679+03
35	1.8114+03	1.8110+03	1.8072+03	1.8081+03	9.3250+00	7.3753+03
36	1.8121+03	1.8093+03	1.8073+03	1.8082+03	9.5172+00	7.5244+03
37	1.8101+03	1.8083+03	1.8068+03	1.8069+03	8.0349+00	9.7090+03
38	1.8115+03	1.8107+03	1.8074+03	1.8084+03	7.2367+00	1.1733+04

# 100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	236	237	262	270	278	286
	DATE	TIME	PMPDIS	TPH IN	TPH IN	TWO O
1	4.1440+03	1.4000+03	1.0086+03	9.9014+02	9.9149+02	1.0592+03
2	4.1440+03	1.7150+03	1.1074+03	1.0573+03	1.0870+03	1.1547+03
3	4.1440+03	1.8300+03	1.1187+03	1.0679+03	1.0982+03	1.1660+03
4	4.1440+03	2.0020+03	1.1235+03	1.1017+03	1.1015+03	1.1697+03
5	4.1440+03	2.2030+03	1.1470+03	1.1246+03	1.1243+03	1.1919+03
6	4.1540+03	1.0300+03	9.4925+02	9.3352+02	9.3419+02	1.3721+03
7	4.1540+03	1.2200+03	9.5615+02	9.4018+02	9.4096+02	1.3401+03
8	4.1540+03	1.3450+03	9.5419+02	9.3801+02	9.3871+02	1.2891+03
9	4.1540+03	1.5450+03	9.5857+02	9.4257+02	9.4324+02	1.2456+03
10	4.1540+03	1.7100+03	9.5780+02	9.4131+02	9.4208+02	1.1920+03
11	4.1540+03	1.8250+03	9.5928+02	9.4290+02	9.4348+02	1.1436+03
12	4.1640+03	1.0300+03	9.6186+02	9.4534+02	9.4645+02	1.1095+03
13	4.1640+03	1.2250+03	9.6108+02	9.4478+02	9.4542+02	1.0600+03
14	4.1640+03	1.4200+03	9.8655+02	9.4235+02	9.4291+02	1.0142+03
15	4.1640+03	1.7150+03	9.7606+02	9.5883+02	9.5970+02	1.0355+03
16	4.1640+03	1.8300+03	9.8688+02	9.6960+02	9.7053+02	1.0466+03
17	4.1740+03	1.0050+03	1.0034+03	9.8522+02	9.8679+02	1.0602+03
18	4.1740+03	1.4300+03	1.0849+03	1.0642+03	1.0662+03	1.1375+03
19	4.1740+03	1.5450+03	1.1033+03	1.0812+03	1.0824+03	1.1532+03
20	4.1740+03	1.7050+03	1.1154+03	1.0680+03	1.0943+03	1.1655+03
21	4.1740+03	1.8200+03	1.1205+03	1.0713+03	1.0993+03	1.1702+03
22	4.2040+03	4.4500+02	1.1355+03	1.1147+03	1.1144+03	1.1842+03
23	4.2040+03	6.0500+02	1.1381+03	1.1153+03	1.1151+03	1.1835+03
24	4.2040+03	7.2300+02	1.1554+03	1.1322+03	1.1318+03	1.2019+03
25	4.2040+03	9.1700+02	1.1611+03	1.1378+03	1.1376+03	1.2070+03
26	4.2040+03	1.4200+03	9.3899+02		9.2453+02	1.3795+03
27	4.2040+03	1.6050+03	9.4418+02	9.2886+02	9.2964+02	
28	4.2040+03	1.8090+03	9.4248+02	9.2720+02	9.2799+02	1.2823+03
29	4.2040+03	2.0450+03	1.1388+03	1.1212+03	1.1221+03	1.1754+03
30	4.2040+03	2.2050+03	1.1578+03	1.1396+03	1.1406+03	1.1945+03
31	4.2040+03	2.3250+03	1.1657+03	1.1473+03	1.1483+03	1.2021+03



100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	294	302	310	318	326	334
	TB IN	TB IN	TWO 8	TWO 9	TWO 10	TWO 11
1	1.0878+03	1.0702+03	1.1504+03	1.2038+03	1.4050+03	1.5048+03
2	1.1870+03	1.1661+03	1.2783+03	1.3523+03	1.6163+03	1.7553+03
3	1.1989+03	1.1776+03	1.2940+03	1.3707+03	1.6470+03	1.7938+03
4	1.2038+03	1.1824+03	1.3004+03	1.3785+03	1.6613+03	1.8108+03
5	1.2254+03	1.2085+03	1.3272+03	1.4043+03	1.6914+03	1.8369+03
6	1.3866+03	1.3811+03	1.4298+03	1.4550+03	1.5554+03	1.6029+03
7	1.3556+03	1.3507+03	1.4036+03	1.4308+03	1.5440+03	1.5971+03
8	1.3026+03	1.2978+03	1.3512+03	1.3830+03	1.5044+03	1.5599+03
9	1.2580+03	1.2528+03	1.3096+03	1.3423+03	1.4677+03	1.5268+03
10	1.2065+03	1.2010+03	1.2590+03	1.2944+03	1.4282+03	1.4912+03
11	1.1588+03	1.1513+03	1.2107+03	1.2486+03	1.3903+03	1.4592+03
12	1.1265+03	1.1158+03	1.1768+03	1.2166+03	1.3657+03	1.4380+03
13	1.0779+03	1.0665+03	1.1273+03	1.1686+03	1.3232+03	1.3969+03
14	1.0343+03	1.0215+03	1.0861+03	1.1275+03	1.2906+03	1.3700+03
15	1.0557+03	1.0422+03	1.1115+03	1.1552+03	1.3269+03	1.4091+03
16	1.0682+03	1.0531+03	1.1243+03	1.1718+03	1.3543+03	1.4440+03
17	1.0839+03	1.0666+03	1.1410+03	1.1894+03	1.3815+03	1.4748+03
18	1.1652+03	1.1463+03	1.2463+03	1.3113+03	1.5513+03	1.6772+03
19	1.1820+03	1.1624+03	1.2687+03	1.3362+03	1.5890+03	1.7203+03
20	1.1951+03	1.1750+03	1.2853+03	1.3556+03	1.6180+03	1.7549+03
21	1.1098+03	1.1814+03	1.2940+03	1.3653+03	1.6312+03	1.7734+03
22	1.2128+03	1.1974+03	1.3095+03	1.3860+03	1.6591+03	1.7965+03
23	1.2143+03	1.1976+03	1.3126+03	1.3899+03	1.6681+03	1.8135+03
24	1.2313+03	1.2193+03	1.3319+03	1.4091+03	1.6911+03	1.8373+03
25	1.2379+03	1.2260+03	1.3402+03	1.4205+03	1.7146+03	1.8631+03
26	1.3870+03	1.3810+03	1.4271+03	1.4496+03	1.5425+03	1.5839+03
27	1.3488+03	1.3429+03	1.3913+03	1.4171+03	1.5188+03	1.5655+03
28	1.2955+03	1.2891+03	1.3414+03	1.3713+03	1.4876+03	1.5395+03
29	1.1800+03	1.1689+03	1.2302+03	1.2621+03	1.3899+03	1.4358+03
30	1.1992+03	1.1879+03	1.2544+03	1.2894+03	1.4237+03	1.4756+03
31	1.2087+03	1.1961+03	1.2666+03	1.3035+03	1.4487+03	1.5033+03

100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	342	350	358	366	374	382
	TWO 12	TWO 13	TWO 14	TWO 15	TWO 16	TWO 17
1	1.5667+03	1.6453+03	1.7322+03	1.7849+03	1.8547+03	1.8180+03
2	1.8353+03	1.8753+03	1.8615+03	1.8561+03	1.8533+03	1.9262+03
3	1.8753+03	1.8626+03	1.8598+03	1.8554+03	1.8548+03	1.9495+03
4	1.8888+03	1.8622+03	1.8621+03	1.8573+03	1.8558+03	1.9268+03
5	1.8931+03	1.8658+03	1.8657+03	1.8590+03	1.8552+03	1.9441+03
6	1.6292+03	1.6682+03	1.7030+03	1.7306+03	1.7644+03	1.6702+03
7	1.6275+03	1.6699+03	1.7099+03	1.7408+03	1.7802+03	1.6758+03
8	1.5924+03	1.6373+03	1.6827+03	1.7145+03	1.7567+03	1.7649+03
9	1.5612+03	1.6075+03	1.6568+03	1.6893+03	1.7350+03	1.7842+03
10	1.5287+03	1.5773+03	1.6306+03	1.6650+03	1.7140+03	1.7962+03
11	1.4982+03	1.5489+03	1.6070+03	1.6068+03	1.6955+03	1.8264+03
12	1.4817+03	1.5356+03	1.5965+03	1.6385+03	1.6897+03	1.8279+03
13	1.4421+03	1.4989+03	1.5618+03	1.6050+03	1.6587+03	1.8233+03
14	1.4171+03	1.4772+03	1.5435+03	1.5900+03	1.6468+03	1.8482+03
15	1.4588+03	1.5226+03	1.5919+03	1.6393+03	1.7005+03	1.8167+03
16	1.4965+03	1.5648+03	1.6389+03	1.6894+03	1.7531+03	1.8044+03
17	1.5283+03	1.6016+03	1.6792+03	1.7315+03	1.7959+03	1.8325+03
18	1.7434+03	1.8301+03	1.8275+03	1.8193+03	1.8133+03	1.8576+03
19	1.7917+03	1.8348+03	1.8237+03	1.8138+03	1.8123+03	1.8564+03
20	1.8282+03	1.8259+03	1.8267+03	1.8194+03	1.8159+03	1.8698+03
21	1.8448+03	1.8214+03	1.8217+03	1.8163+03	1.8152+03	1.8658+03
22	1.8606+03	1.8205+03	1.8285+03	1.8209+03	1.8189+03	1.9290+03
23	1.8421+03	1.8226+03	1.8275+03	1.8194+03	1.8166+03	1.9369+03
24	1.8321+03	1.8281+03	1.8291+03	1.8210+03	1.8197+03	1.9418+03
25	1.8382+03	1.8297+03	1.8309+03	1.8247+03	1.8232+03	1.9521+03
26	1.8067+03	1.6410+03	1.6735+03	1.6995+03	1.7320+03	1.6088+03
27	1.5907+03	1.6282+03	1.6652+03	1.6942+03	1.7329+03	1.6271+03
28	1.5891+03	1.6107+03	1.6544+03	1.6851+03	1.7273+03	1.6546+03
29	1.4607+03	1.4986+03	1.5506+03	1.5816+03	1.6254+03	1.8011+03
30	1.5019+03	1.5452+03	1.6014+03	1.6351+03	1.6809+03	1.7091+03
31	1.5325+03	1.5791+03	1.6405+03	1.6747+03	1.7248+03	1.7715+03

100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	398	406	414	430	438	446
	TWO 19	TWO 20	TWO 21	TWO 23	TWO 24	TWO 25
1	1.8655+03		1.8869+03	1.8425+03	1.8401+03	1.8385+03
2	1.8847+03		1.8498+03	1.8509+03	1.8500+03	1.8505+03
3	1.8979+03		1.8531+03	1.8525+03	1.8507+03	1.8531+03
4	1.8877+03		1.8917+03	1.8527+03	1.8517+03	1.8532+03
5	1.8902+03		1.8897+03	1.8569+03	1.8555+03	1.8561+03
6	1.8116+03		1.8826+03	1.7902+03	1.7882+03	1.7860+03
7	1.8115+03		1.9152+03	1.7930+03	1.7915+03	1.7897+03
8	1.8134+03		1.9350+03	1.7932+03	1.7917+03	1.7904+03
9	1.8297+03		1.9513+03	1.7940+03	1.7929+03	1.7907+03
10	1.8197+03		1.9671+03	1.7949+03	1.7934+03	1.7912+03
11	1.8089+03		1.9875+03	1.7951+03	1.7949+03	1.7930+03
12	1.8117+03		1.7991+03	1.7993+03	1.7978+03	1.7964+03
13	1.7867+03		1.7999+03	1.7979+03	1.7977+03	1.7968+03
14	1.7805+03		1.8005+03	1.7998+03	1.7992+03	1.7977+03
15	1.8373+03		1.7988+03	1.8010+03	1.7994+03	1.7976+03
16	1.8411+03		1.8011+03	1.8046+03	1.8031+03	1.8031+03
17	1.9155+03		1.8007+03	1.8032+03	1.8022+03	1.8028+03
18	1.8390+03		1.8068+03	1.8097+03	1.8088+03	1.8109+03
19	1.8415+03		1.8071+03	1.8108+03	1.8094+03	1.8115+03
20	1.8456+03		1.8110+03	1.8138+03	1.8129+03	1.8151+03
21	1.8469+03		1.8100+03	1.8138+03	1.8121+03	1.8142+03
22	1.8500+03			1.8157+03	1.8136+03	1.8168+03
23	1.8493+03			1.8155+03	1.8142+03	1.8166+03
24	1.8511+03			1.8169+03	1.8165+03	1.8184+03
25	1.8528+03			1.8193+03	1.8184+03	1.8198+03
26	1.7702+03			1.7381+03	1.7369+03	1.7345+03
27	1.7789+03		1.7847+03	1.7458+03	1.7451+03	1.7436+03
28	1.7840+03		1.7928+03	1.7481+03	1.7463+03	1.7443+03
29	1.7342+03		1.7899+03	1.7512+03	1.7497+03	1.7488+03
30	1.7949+03		1.7597+03	1.7592+03	1.7574+03	1.7560+03
31	1.8238+03		1.7596+03	1.7600+03	1.7599+03	1.7587+03

## 100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	454	462	470	478	509	516
	TWO 26	TWO 27	TB OUT	TB OUT	CND IN	CND 37
1	1.8375+03	1.8367+03	1.8023+03	1.8002+03	1.7992+03	1.8012+03
2	1.8501+03	1.8488+03	1.8048+03	1.8023+03	1.8023+03	1.8041+03
3	1.8518+03	1.8510+03	1.8044+03	1.8021+03	1.8026+03	1.8045+03
4	1.8518+03	1.8511+03	1.8037+03	1.8014+03	1.8025+03	1.8049+03
5	1.8553+03	1.8549+03	1.8062+03	1.8038+03	1.8043+03	1.8065+03
6	1.7836+03	1.7858+03	1.7617+03	1.7591+03	1.7601+03	1.7633+03
7	1.7864+03	1.7887+03	1.7630+03	1.7603+03	1.7603+03	1.7636+03
8	1.7875+03	1.7894+03	1.7627+03	1.7602+03	1.7596+03	1.7633+03
9	1.7878+03	1.7897+03	1.7633+03	1.7609+03	1.7608+03	1.7640+03
10	1.7883+03	1.7898+03	1.7621+03	1.7595+03	1.7593+03	1.7626+03
11	1.7906+03	1.7920+03	1.7625+03	1.7599+03	1.7590+03	1.7627+03
12	1.7926+03	1.7944+03	1.7646+03	1.7615+03	1.7611+03	1.7637+03
13	1.7934+03	1.7943+03	1.7635+03	1.7608+03	1.7604+03	1.7635+03
14	1.7948+03	1.7952+03	1.7637+03	1.7612+03	1.7882+03	1.7908+03
15	1.7961+03	1.7961+03	1.7641+03	1.7616+03	1.7609+03	1.7638+03
16	1.7998+03	1.7993+03	1.7666+03	1.7639+03	1.7633+03	1.7660+03
17	1.7999+03	1.8000+03	1.7659+03	1.7625+03	1.7596+03	1.7621+03
18	1.8081+03	1.8066+03	1.7684+03	1.7643+03	1.7650+03	1.7655+03
19	1.8092+03	1.8077+03	1.7670+03	1.7634+03	1.7649+03	1.7663+03
20	1.8128+03	1.8114+03	1.7684+03	1.7648+03	1.7669+03	1.7683+03
21	1.8119+03	1.8105+03	1.7667+03	1.7635+03	1.7659+03	1.7675+03
22	1.8137+03	1.8120+03	1.7677+03	1.7645+03	1.7658+03	1.7672+03
23	1.8143+03	1.8122+03	1.7672+03	1.7641+03	1.7665+03	1.7678+03
24	1.8162+03	1.8145+03	1.7689+03	1.7658+03	1.7672+03	1.7685+03
25	1.8171+03	1.8154+03	1.7695+03	1.7661+03	1.7686+03	1.7699+03
26	1.7325+03	1.7348+03	1.7140+03	1.7102+03	1.7126+03	1.7149+03
27	1.7406+03	1.7427+03	1.7211+03	1.7174+03	1.7189+03	1.7219+03
28	1.7423+03	1.7439+03	1.7212+03	1.7174+03	1.7179+03	1.7206+03
29	1.7482+03	1.7473+03	1.7187+03	1.7151+03	1.7159+03	1.7183+03
30	1.7550+03	1.7555+03	1.7210+03	1.7174+03	1.7169+03	1.7197+03
31	1.7573+03	1.7574+03	1.7225+03	1.7189+03	1.7187+03	1.7209+03

# 100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	523	530	537	544	551	558
	CND 38	CND 39	CND 40	CND 41	CND 42	CND 43
1	1.7924+03	1.7044+03	1.5560+03	1.4624+03	1.3790+03	1.3126+03
2	1.7915+03	1.7973+03	1.7926+03	1.7935+03	1.7817+03	1.6319+03
3	1.7907+03	1.7971+03	1.7920+03	1.7927+03	1.8008+03	1.7172+03
4	1.7913+03	1.7978+03	1.7924+03	1.7941+03	1.8014+03	1.7609+03
5	1.7912+03	1.7991+03	1.7936+03	1.7951+03	1.8026+03	1.8028+03
6	1.5888+03	1.4730+03	1.3759+03	1.3092+03	1.2468+03	1.1928+03
7	1.6282+03	1.5022+03	1.3992+03	1.3273+03	1.2619+03	1.2065+03
8	1.6251+03	1.4990+03	1.3978+03	1.3260+03	1.2601+03	1.2053+03
9	1.6190+03	1.4970+03	1.3961+03	1.3262+03	1.2621+03	1.2076+03
10	1.6174+03	1.4961+03	1.3953+03	1.3248+03	1.2604+03	1.2065+03
11	1.6182+03	1.4955+03	1.3963+03	1.3267+03	1.2622+03	1.2082+03
12	1.6318+03	1.5060+03	1.4045+03	1.3338+03	1.2684+03	1.2135+03
13	1.6169+03	1.4969+03	1.3975+03	1.3280+03	1.2641+03	1.2096+03
14	1.6506+03	1.5254+03	1.4272+03	1.3571+03	1.2936+03	1.2404+03
15	1.6919+03	1.5534+03	1.4433+03	1.3674+03	1.2975+03	1.2406+03
16	1.7582+03	1.6109+03	1.4871+03	1.4048+03	1.3305+03	1.2692+03
17	1.7570+03	1.6674+03	1.5318+03	1.4422+03	1.3622+03	1.2969+03
18	1.7559+03	1.7597+03	1.7569+03	1.7592+03	1.6538+03	1.5298+03
19	1.7558+03	1.7595+03	1.7566+03	1.7577+03	1.7534+03	1.6086+03
20	1.7577+03	1.7615+03	1.7576+03	1.7592+03	1.7644+03	1.6880+03
21	1.7566+03	1.7602+03	1.7574+03	1.7589+03	1.7635+03	1.7365+03
22	1.7556+03	1.7595+03	1.7569+03	1.7577+03	1.7637+03	1.7635+03
23	1.7558+03	1.7596+03	1.7572+03	1.7580+03	1.7641+03	1.7642+03
24	1.7562+03	1.7601+03	1.7575+03	1.7581+03	1.7649+03	1.7648+03
25	1.7571+03	1.7615+03	1.7587+03	1.7592+03	1.7662+03	1.7660+03
26	1.5643+03	1.4510+03	1.3562+03	1.2891+03	1.2281+03	1.1760+03
27	1.5803+03	1.4639+03	1.3671+03	1.2986+03	1.2366+03	1.1839+03
28	1.6004+03	1.4787+03	1.3796+03	1.3085+03	1.2451+03	1.1906+03
29	1.6514+03	1.5633+03	1.4863+03	1.4292+03	1.3752+03	1.3272+03
30	1.7097+03	1.6189+03	1.5327+03	1.4710+03	1.4130+03	1.3623+03
31	1.7154+03	1.6795+03	1.5803+03	1.5113+03	1.4488+03	1.3935+03

100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	565	572	579	586	593	600
	CND 44	CND 45	CND 46	CND 47	CNDDIS	PUMPIN
1	1.2567+03	1.2125+03	1.1693+03	1.1342+03	1.0881+03	9.7842+02
2	1.5161+03	1.4373+03	1.3639+03	1.3067+03	1.2354+03	1.0830+03
3	1.5765+03	1.4844+03	1.4023+03	1.3395+03	1.2614+03	1.0982+03
4	1.6061+03	1.5030+03	1.4175+03	1.3515+03	1.2712+03	1.1024+03
5	1.6798+03	1.5630+03	1.4643+03	1.3913+03	1.3045+03	1.1245+03
6	1.1481+03	1.1130+03	1.0781+03	1.0482+03	1.0076+03	9.1967+02
7	1.1597+03	1.1238+03	1.0877+03	1.0572+03	1.0154+03	9.2472+02
8	1.1590+03	1.1226+03	1.0868+03	1.0566+03	1.0153+03	9.2397+02
9	1.1621+03	1.1264+03	1.0911+03	1.0607+03	1.0196+03	9.3042+02
10	1.1610+03	1.1253+03	1.0906+03	1.0608+03	1.0188+03	9.2823+02
11	1.1627+03	1.1267+03	1.0908+03	1.0603+03	1.0195+03	9.2869+02
12	1.1669+03	1.1306+03	1.0943+03	1.0632+03	1.0216+03	9.3007+02
13	1.1635+03	1.1278+03	1.0920+03	1.0617+03	1.0201+03	9.2910+02
14	1.1939+03	1.1582+03	1.1221+03	1.0919+03	1.0501+03	9.5780+02
15	1.1920+03	1.1543+03	1.1167+03	1.0851+03	1.0422+03	9.4459+02
16	1.2169+03	1.1753+03	1.1352+03	1.1028+03	1.0584+03	9.5796+02
17	1.2425+03	1.1987+03	1.1567+03	1.1220+03	1.0755+03	9.6895+02
18	1.4389+03	1.3709+03	1.3082+03	1.2573+03	1.1926+03	1.0531+03
19	1.4983+03	1.4213+03	1.3497+03	1.2944+03	1.2251+03	1.0756+03
20	1.5548+03	1.4691+03	1.3878+03	1.3253+03	1.2499+03	1.0912+03
21	1.5862+03	1.4896+03	1.4072+03	1.3419+03	1.2642+03	1.1014+03
22	1.6475+03	1.5345+03	1.4409+03	1.3705+03	1.2873+03	1.0982+03
23	1.7122+03	1.5795+03	1.4703+03	1.3929+03	1.3027+03	1.1214+03
24	1.7430+03	1.6098+03	1.4969+03	1.4157+03	1.3212+03	1.1301+03
25	1.7643+03	1.6678+03	1.5343+03	1.4427+03	1.3399+03	1.1404+03
26	1.1327+03	1.0980+03	1.0630+03	1.0333+03	9.9408+02	9.0672+02
27	1.1396+03	1.1048+03	1.0694+03	1.0398+03	1.0001+03	9.1281+02
28	1.1449+03	1.1090+03	1.0729+03	1.0422+03	1.0015+03	9.1283+02
29	1.2854+03	1.2505+03	1.2150+03	1.1847+03	1.1444+03	1.0554+03
30	1.3166+03	1.2798+03	1.2418+03	1.2092+03	1.1650+03	1.0728+03
31	1.3436+03	1.3044+03	1.2640+03	1.2294+03	1.1829+03	1.0854+03

100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	607	614	621	628	635	642
	TRADTR	TRADTL	TRADMR	TRADML	TRADBR	TRADBL
1	1.0374+03	1.0373+03	1.0495+03	1.0468+03	9.5312+02	9.4887+02
2	1.1407+03	1.1405+03	1.1596+03	1.1604+03	1.0573+03	1.0533+03
3	1.1487+03	1.1485+03	1.1704+03	1.1725+03	1.0697+03	1.0661+03
4	1.1506+03	1.1504+03	1.1735+03	1.1763+03	1.0744+03	1.0707+03
5	1.1607+03	1.1605+03	1.1850+03	1.1888+03	1.0869+03	1.0831+03
6	8.9457+02	8.7680+02	8.8204+02	8.8416+02	8.2578+02	8.2000+02
7	9.1531+02	8.9797+02	9.0468+02	9.0679+02	8.4319+02	8.3790+02
8	9.2536+02	9.0793+02	9.1503+02	9.1673+02	8.5007+02	8.4486+02
9	9.3435+02	9.1666+02	9.2379+02	9.2531+02	8.5555+02	8.5056+02
10	9.4226+02	9.2434+02	9.3176+02	9.3290+02	8.6099+02	8.5600+02
11	9.5234+02	9.3339+02	9.4156+02	9.4261+02	8.6766+02	8.6279+02
12	9.6129+02	9.4259+02	9.5203+02	9.5146+02	8.7397+02	8.7050+02
13	9.6663+02	9.4754+02	9.5664+02	9.5573+02	8.7705+02	8.7343+02
14	9.7625+02	9.5688+02	9.6619+02	9.6510+02	8.8405+02	8.8044+02
15	9.7554+02	9.7545+02	9.8654+02	9.8563+02	9.0231+02	8.9862+02
16	9.9453+02	9.9443+02	1.0072+03	1.0065+03	9.2055+02	9.1686+02
17	1.0085+03	1.0083+03	1.0232+03	1.0213+03	9.3350+02	9.2970+02
18	1.0987+03	1.0985+03	1.1181+03	1.1178+03	1.0205+03	1.0165+03
19	1.1141+03	1.1139+03	1.1355+03	1.1353+03	1.0382+03	1.0342+03
20	1.1256+03	1.1255+03	1.1491+03	1.1486+03	1.0514+03	1.0474+03
21	1.1302+03	1.1301+03	1.1549+03	1.1546+03	1.0578+03	1.0539+03
22	1.1355+03	1.1353+03	1.1620+03	1.1618+03	1.0663+03	1.0623+03
23	1.1421+03	1.1420+03	1.1700+03	1.1706+03	1.0742+03	1.0704+03
24	1.1451+03	1.1450+03	1.1736+03	1.1741+03	1.0791+03	1.0753+03
25	1.1527+03	1.1526+03	1.1822+03	1.1830+03	1.0875+03	1.0836+03
26	8.6894+02	8.5227+02	8.5680+02	8.5917+02	8.0405+02	7.9995+02
27	8.8573+02	8.6879+02	8.7605+02	8.7626+02	8.1672+02	8.1265+02
28	9.0429+02	8.8685+02	8.9473+02	8.9465+02	8.3017+02	8.2632+02
29	1.0025+03	9.8286+02	9.9290+02	9.9216+02	9.1232+02	9.0872+02
30	1.0243+03	1.0039+03	1.0160+03	1.0153+03	9.3248+02	9.2880+02
31	1.0435+03	1.0233+03	1.0372+03	1.0369+03	9.5068+02	9.4683+02

# 100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	663	799	819	823	839	842
	PHCASE	QN PH	QN B	Q/A	FLOW	G
1	7.8546+02	9.2400-01	1.2710+01	8.9307+04	4.6149-02	5.5327+04
2	8.3279+02	9.5120-01	1.7849+01	1.2542+05	4.6428-02	5.5661+04
3	8.3840+02	9.5120-01	1.8672+01	1.3120+05	4.6522-02	5.5774+04
4	8.4609+02	9.4780-01	1.9010+01	1.3358+05	4.6205-02	5.5394+04
5	8.4628+02	9.4780-01	1.9726+01	1.3861+05	4.6850-02	5.6168+04
6	1.1011+03	4.8930+00	5.9614+00	4.1888+04	4.6341-02	5.5558+04
7	1.0775+03	4.3464+00	6.7715+00	4.7580+04	4.6002-02	5.5152+04
8	1.0451+03	3.9758+00	7.2478+00	5.0927+04	4.5632-02	5.4708+04
9	1.0144+03	3.4938+00	7.5976+00	5.3385+04	4.6321-02	5.5533+04
10	9.7461+02	2.9300+00	8.0500+00	5.6564+04	4.6293-02	5.5500+04
11	9.3234+02	2.4460+00	8.4836+00	5.9611+04	4.6270-02	5.5472+04
12	8.9137+02	2.0082+00	9.0251+00	6.3415+04	4.6254-02	5.5453+04
13	8.3255+02	1.4622+00	9.3294+00	6.5554+04	4.6236-02	5.5431+04
14	7.8616+02	9.2400-01	9.9045+00	6.9595+04	4.5865-02	5.4987+04
15	7.7969+02	9.8400-01	1.0545+01	7.4095+04	4.6299-02	5.5507+04
16	7.8547+02	9.9635-01	1.1214+01	7.8794+04	4.6365-02	5.5586+04
17	7.8428+02	9.4100-01	1.1750+01	8.2561+04	4.6416-02	5.5648+04
18	8.1721+02	9.4440-01	1.5951+01	1.1208+05	4.6948-02	5.6285+04
19	8.2509+02	9.5120-01	1.7097+01	1.2013+05	4.6708-02	5.5997+04
20	8.3221+02	9.6585-01	1.7599+01	1.2366+05	4.6789-02	5.6094+04
21	8.3547+02	9.8050-01	1.7964+01	1.2623+05	4.6833-02	5.6148+04
22	8.3547+02	9.1530-01	1.8366+01	1.2905+05	4.7259-02	5.6658+04
23	8.3944+02	9.4440-01	1.8844+01	1.3241+05	4.6947-02	5.6284+04
24	8.4361+02	9.5120-01	1.9174+01	1.3473+05	4.6653-02	5.5932+04
25	8.4541+02	9.3760-01	1.9702+01	1.3844+05	4.6348-02	5.5566+04
26	1.1029+03	4.9946+00	5.4511+00	3.8303+04	4.5846-02	5.4964+04
27	1.0774+03	4.4634+00	5.9970+00	4.2139+04	4.6271-02	5.5473+04
28	1.0408+03	3.9399+00	6.7197+00	4.7216+04	4.5898-02	5.5027+04
29	7.9153+02	9.8050-01	1.0768+01	7.5662+04	6.9553-02	8.3386+04
30	7.9888+02	9.5460-01	1.1536+01	8.1060+04	6.9390-02	8.3191+04
31	8.0302+02	9.3320-01	1.2313+01	8.6516+04	6.9184-02	8.2943+04



100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	853	855	858	859	1003	1010
	X OUT	EB OUT	VELOUT	P SAT	TWI 8	TWI 9
1	1.5574-01	5.5134+02	1.4847+01	8.0646+01	1.1206+03	1.1740+03
2	3.1883-01	6.7301+02	3.0345+01	8.1308+01	1.2367+03	1.3110+03
3	3.4341-01	6.9125+02	3.2781+01	8.1229+01	1.2506+03	1.3276+03
4	3.5759-01	7.0172+02	3.3981+01	8.1025+01	1.2562+03	1.3346+03
5	3.7555-01	7.1534+02	3.5896+01	8.1727+01	1.2814+03	1.3588+03
6	5.8283-02	4.7048+02	6.4697+00	6.9633+01	1.4161+03	1.4413+03
7	7.3197-02	4.8201+02	8.0257+00	6.9967+01	1.3880+03	1.4152+03
8	7.4270-02	4.8277+02	8.0856+00	6.9902+01	1.3345+03	1.3663+03
9	6.9160-02	4.7904+02	7.6231+00	7.0077+01	1.2920+03	1.3247+03
10	6.8889-02	4.7857+02	7.6274+00	6.9735+01	1.2402+03	1.2757+03
11	6.8463-02	4.7833+02	7.5649+00	6.9838+01	1.1909+03	1.2288+03
12	7.4298-02	4.8312+02	8.1465+00	7.0335+01	1.1557+03	1.1955+03
13	7.0786-02	4.8028+02	7.7870+00	7.0086+01	1.1053+03	1.1467+03
14	7.7542-02	4.8545+02	8.4508+00	7.0174+01	1.0628+03	1.1042+03
15	9.7446-02	5.0056+02	1.0705+01	7.0270+01	1.0867+03	1.1305+03
16	1.1744-01	5.1611+02	1.2801+01	7.0896+01	1.0980+03	1.1455+03
17	1.3547-01	5.2953+02	1.4843+01	7.0624+01	1.1134+03	1.1619+03
18	2.6379-01	6.2673+02	2.8989+01	7.1196+01	1.2091+03	1.2743+03
19	3.0113-01	6.5474+02	3.3076+01	7.0878+01	1.2289+03	1.2966+03
20	3.1680-01	6.6675+02	3.4664+01	7.1257+01	1.2444+03	1.3149+03
21	3.1651-01	6.6634+02	3.4871+01	7.0854+01	1.2523+03	1.3237+03
22	3.3759-01	6.8238+02	3.7379+01	7.1133+01	1.2668+03	1.3436+03
23	3.5390-01	6.9463+02	3.8994+01	7.1013+01	1.2689+03	1.3464+03
24	3.7055-01	7.0738+02	4.0313+01	7.1454+01	1.2875+03	1.3649+03
25	3.8987-01	7.2200+02	4.2071+01	7.1562+01	1.2946+03	1.3751+03
26	5.8961-02	4.6127+02	7.7107+00	5.8174+01	1.4145+03	1.4371+03
27	6.0519-02	4.6390+02	7.7954+00	5.9755+01	1.3775+03	1.4033+03
28	6.7762-02	4.6947+02	8.6567+00	5.9767+01	1.3259+03	1.3558+03
29	4.9492-02	4.5496+02	9.6596+00	5.9234+01	1.2050+03	1.2370+03
30	6.7710-02	4.6940+02	1.3082+01	5.9743+01	1.2275+03	1.2626+03
31	8.3984-02	4.8218+02	1.6098+01	6.0077+01	1.2379+03	1.2749+03

## 100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	1017	1024	1031	1038	1045	1052
	TWI 10	TWI 11	TWI 12	TWI 13	TWI 14	TWI 15
1	1.3757+03	1.4756+03	1.5377+03	1.6164+03	1.7035+03	1.7563+03
2	1.5757+03	1.7150+03	1.7953+03	1.8354+03	1.8215+03	1.8162+03
3	1.6046+03	1.7519+03	1.8336+03	1.8209+03	1.8180+03	1.8136+03
4	1.6182+03	1.7681+03	1.8463+03	1.8197+03	1.8196+03	1.8147+03
5	1.6467+03	1.7927+03	1.8490+03	1.8217+03	1.8216+03	1.8149+03
6	1.5418+03	1.5893+03	1.6156+03	1.6547+03	1.6896+03	1.7172+03
7	1.5285+03	1.5817+03	1.6121+03	1.6545+03	1.6946+03	1.7256+03
8	1.4878+03	1.5434+03	1.5759+03	1.6208+03	1.6663+03	1.6981+03
9	1.4502+03	1.5094+03	1.5439+03	1.5902+03	1.6396+03	1.6721+03
10	1.4097+03	1.4727+03	1.5103+03	1.5589+03	1.6123+03	1.6468+03
11	1.3707+03	1.4397+03	1.4788+03	1.5295+03	1.5877+03	1.5875+03
12	1.3448+03	1.4172+03	1.4610+03	1.5149+03	1.5759+03	1.6180+03
13	1.3016+03	1.3754+03	1.4206+03	1.4775+03	1.5405+03	1.5838+03
14	1.2675+03	1.3471+03	1.3943+03	1.4545+03	1.5209+03	1.5675+03
15	1.3024+03	1.3848+03	1.4345+03	1.4985+03	1.5679+03	1.6154+03
16	1.3283+03	1.4182+03	1.4708+03	1.5392+03	1.6135+03	1.6640+03
17	1.3544+03	1.4478+03	1.5014+03	1.5749+03	1.6526+03	1.7050+03
18	1.5148+03	1.6411+03	1.7075+03	1.7943+03	1.7917+03	1.7835+03
19	1.5501+03	1.6817+03	1.7532+03	1.7964+03	1.7854+03	1.7754+03
20	1.5780+03	1.7152+03	1.7887+03	1.7864+03	1.7873+03	1.7799+03
21	1.5904+03	1.7330+03	1.8046+03	1.7811+03	1.7814+03	1.7760+03
22	1.6174+03	1.7552+03	1.8195+03	1.7793+03	1.7873+03	1.7797+03
23	1.6254+03	1.7712+03	1.7999+03	1.7803+03	1.7852+03	1.7771+03
24	1.6477+03	1.7943+03	1.7891+03	1.7851+03	1.7861+03	1.7780+03
25	1.6701+03	1.8190+03	1.7941+03	1.7855+03	1.7868+03	1.7805+03
26	1.5300+03	1.5714+03	1.5943+03	1.6286+03	1.6611+03	1.6871+03
27	1.5050+03	1.5518+03	1.5770+03	1.6146+03	1.6516+03	1.6806+03
28	1.4722+03	1.5242+03	1.5537+03	1.5954+03	1.6392+03	1.6699+03
29	1.3650+03	1.4110+03	1.4360+03	1.4739+03	1.5260+03	1.5571+03
30	1.3971+03	1.4491+03	1.4755+03	1.5188+03	1.5752+03	1.6089+03
31	1.4203+03	1.4751+03	1.5044+03	1.5510+03	1.6125+03	1.6468+03

100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	P059	1066	1080	1087	1094	1108
	TWI 16	TWI 17	TWI 19	TWI 20	TWI 21	TWI 23
1	1.8263+03	1.7895+03	1.8370+03		1.8585+03	1.8140+03
2	1.8133+03	1.8865+03	1.8448+03		1.8098+03	1.8109+03
3	1.8130+03	1.9080+03	1.8562+03		1.8113+03	1.8107+03
4	1.8132+03	1.8845+03	1.8453+03		1.8492+03	1.8101+03
5	1.8111+03	1.9002+03	1.8462+03		1.8457+03	1.8127+03
6	1.7510+03	1.6567+03	1.7982+03		1.8693+03	1.7768+03
7	1.7650+03	1.6604+03	1.7963+03		1.9001+03	1.7778+03
8	1.7404+03	1.7486+03	1.7971+03		1.9189+03	1.7769+03
9	1.7179+03	1.7671+03	1.8126+03		1.9344+03	1.7769+03
10	1.6959+03	1.7781+03	1.8017+03		1.9492+03	1.7768+03
11	1.6763+03	1.8074+03	1.7898+03		1.9687+03	1.7760+03
12	1.6692+03	1.8076+03	1.7914+03		1.7788+03	1.7790+03
13	1.6375+03	1.8023+03	1.7657+03		1.7790+03	1.7770+03
14	1.6243+03	1.8260+03	1.7582+03		1.7782+03	1.7775+03
15	1.6767+03	1.7930+03	1.8137+03		1.7751+03	1.7773+03
16	1.7278+03	1.7792+03	1.8160+03		1.7759+03	1.7794+03
17	1.7695+03	1.8061+03	1.8893+03		1.7743+03	1.7768+03
18	1.7774+03	1.8219+03	1.8032+03		1.7710+03	1.7739+03
19	1.7739+03	1.8181+03	1.8032+03		1.7687+03	1.7724+03
20	1.7764+03	1.8304+03	1.8062+03		1.7714+03	1.7743+03
21	1.7749+03	1.8256+03	1.8066+03		1.7696+03	1.7734+03
22	1.7777+03	1.8881+03	1.8089+03			1.7745+03
23	1.7743+03	1.8949+03	1.8071+03			1.7732+03
24	1.7767+03	1.8991+03	1.8081+03			1.7739+03
25	1.7790+03	1.9083+03	1.8087+03			1.7751+03
26	1.7197+03	1.5964+03	1.7579+03			1.7258+03
27	1.7194+03	1.6134+03	1.7654+03		1.7712+03	1.7323+03
28	1.7121+03	1.6393+03	1.7689+03		1.7777+03	1.7330+03
29	1.6010+03	1.7769+03	1.7099+03		1.7657+03	1.7269+03
30	1.6548+03	1.6830+03	1.7689+03		1.7337+03	1.7332+03
31	1.6970+03	1.7438+03	1.7961+03		1.7318+03	1.7323+03

100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	1115	1122	1129	1136	1137	1138
	TWI 24	TWI 25	TWI 26	TWI 27	DT 27	H 27
1	1.8116+03	1.8100+03	1.8090+03	1.8082+03	6.9502+00	1.2849+04
2	1.8100+03	1.8105+03	1.8101+03	1.8088+03	5.2387+00	2.3940+04
3	1.8089+03	1.8113+03	1.8100+03	1.8092+03	5.8933+00	2.2263+04
4	1.8092+03	1.8106+03	1.8093+03	1.8085+03	5.9660+00	2.2390+04
5	1.8114+03	1.8120+03	1.8111+03	1.8108+03	5.7851+00	2.3959+04
6	1.7748+03	1.7726+03	1.7701+03	1.7724+03	1.2049+01	3.4764+03
7	1.7763+03	1.7745+03	1.7712+03	1.7735+03	1.1800+01	4.0322+03
8	1.7754+03	1.7741+03	1.7712+03	1.7731+03	1.1631+01	4.3784+03
9	1.7759+03	1.7736+03	1.7708+03	1.7726+03	1.0524+01	5.0728+03
10	1.7753+03	1.7731+03	1.7702+03	1.7717+03	1.0873+01	5.2022+03
11	1.7758+03	1.7739+03	1.7715+03	1.7729+03	1.1730+01	5.0820+03
12	1.7775+03	1.7761+03	1.7723+03	1.7741+03	1.1045+01	5.7414+03
13	1.7768+03	1.7758+03	1.7725+03	1.7733+03	1.1176+01	5.8654+03
14	1.7769+03	1.7755+03	1.7726+03	1.7730+03	1.0515+01	6.6185+03
15	1.7758+03	1.7739+03	1.7724+03	1.7724+03	9.5775+00	7.7364+03
16	1.7779+03	1.7779+03	1.7746+03	1.7741+03	8.9254+00	8.8280+03
17	1.7758+03	1.7764+03	1.7735+03	1.7736+03	9.4558+00	8.7312+03
18	1.7729+03	1.7751+03	1.7723+03	1.7708+03	4.4484+00	2.5197+04
19	1.7710+03	1.7731+03	1.7708+03	1.7693+03	4.1866+00	2.8695+04
20	1.7734+03	1.7756+03	1.7733+03	1.7718+03	5.2324+00	2.3634+04
21	1.7718+03	1.7739+03	1.7716+03	1.7702+03	5.1138+00	2.4684+04
22	1.7723+03	1.7756+03	1.7724+03	1.7707+03	4.5948+00	2.8086+04
23	1.7719+03	1.7743+03	1.7720+03	1.7699+03	4.2005+00	3.1522+04
24	1.7735+03	1.7754+03	1.7732+03	1.7715+03	4.0937+00	3.2911+04
25	1.7742+03	1.7756+03	1.7729+03	1.7712+03	3.4182+00	4.0500+04
26	1.7246+03	1.7222+03	1.7202+03	1.7225+03	1.0430+01	3.6722+03
27	1.7316+03	1.7301+03	1.7271+03	1.7292+03	9.9217+00	4.2471+03
28	1.7311+03	1.7291+03	1.7272+03	1.7288+03	9.4483+00	4.9973+03
29	1.7254+03	1.7245+03	1.7239+03	1.7230+03	6.1070+00	1.2389+04
30	1.7314+03	1.7300+03	1.7290+03	1.7295+03	1.0345+01	7.8355+03
31	1.7322+03	1.7310+03	1.7295+03	1.7297+03	9.0118+00	9.6002+03

## 100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	236	237	262	270	278	286
	DATE	TIME	PMPDIS	TPH IN	TPH IN	TWO O
1	4.2140+03	4.5000+01	1.1951+03	1.1750+03	1.1763+03	1.2284+03
2	4.2140+03	2.0500+02	1.2057+03	1.1892+03	1.1871+03	1.2386+03
3	4.2140+03	3.4500+02	1.2880+03	1.2469+03	1.2661+03	1.3160+03
4	4.2140+03	5.0500+02	1.3078+03	1.2690+03	1.2847+03	1.3340+03
5	4.2140+03	6.1500+02	1.3429+03	1.3090+03	1.3191+03	1.3660+03
6	4.2140+03	1.0020+03	9.4258+02	9.2735+02	9.2790+02	1.2254+03
7	4.2140+03	1.1280+03	9.4200+02	9.2666+02	9.2728+02	1.1843+03
8	4.2140+03	1.2300+03	9.4807+02	9.3238+02	9.3297+02	1.1367+03
9	4.2140+03	1.3450+03	9.4392+02	9.2822+02	9.2884+02	1.0938+03
10	4.2140+03	1.6000+03	9.4788+02	9.3193+02	9.3262+02	1.0507+03
11	4.2140+03	1.7550+03	9.4960+02	9.3360+02	9.3411+02	1.0094+03
12	4.2140+03	1.9100+03	9.6726+02	9.5078+02	9.5161+02	1.0262+03
13	4.2140+03	2.3100+03	9.6143+02	9.4532+02	9.4595+02	1.1966+03
14	4.2240+03	3.0000+01	9.6016+02	9.4439+02	9.4482+02	1.1455+03
15	4.2240+03	1.5000+02	9.6131+02	9.4504+02	9.4564+02	1.1038+03
16	4.2240+03	3.1000+02	9.5825+02	9.4165+02	9.4224+02	1.0745+03
17	4.2240+03	4.3000+02	9.5703+02	9.4056+02	9.4090+02	1.0132+03
18	4.2240+03	5.5000+02	9.7161+02	9.5453+02	9.5530+02	1.0283+03
19	4.2240+03	7.5000+02	9.7601+02	9.5875+02	9.5961+02	1.0350+03
20	4.2240+03	9.3000+02	9.8610+02	9.6824+02	9.6916+02	1.0444+03
21	4.2740+03	1.0400+03	8.6926+02	8.5268+02	8.5473+02	1.2248+03
22	4.2740+03	1.2250+03	8.3828+02	8.2260+02	8.2408+02	1.2084+03
23	4.2740+03	1.3500+03	8.4190+02	8.2578+02	8.2709+02	1.1541+03
24	4.2740+03	1.5450+03	8.4487+02	8.2804+02	8.2944+02	1.0949+03
25	4.2840+03	1.0000+03	8.5719+02	8.4014+02	8.4226+02	1.0452+03
26	4.2840+03	1.2200+03	8.5040+02	8.3370+02	8.3518+02	9.8840+02
27	4.2840+03	1.3400+03	8.4963+02	8.3373+02	8.3505+02	9.3290+02
28	4.2840+03	1.5000+03	8.5802+02	8.4113+02	8.4250+02	9.4069+02
29	4.2940+03	1.0150+03	8.7315+02	8.5590+02	8.5802+02	9.5420+02
30	4.2940+03	1.2200+03	8.7960+02	8.6211+02	8.6373+02	9.5885+02
31	4.2940+03	1.3400+03	8.7905+02	8.6197+02	8.6350+02	9.5810+02
32	4.2940+03	1.5000+03	8.5832+02	8.4827+02	8.4804+02	9.4096+02
33	4.3040+03	1.0200+03	8.9396+02	8.7531+02	8.7756+02	9.6687+02
34	4.3040+03	1.2200+03	9.7076+02	9.4958+02	9.5259+02	1.0460+03

## 100 KW ROILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	294	302	310	318	326	334
	TB IN	TB IN	TWO 8	TWO 9	TWO 10	TWO 11
1	1.2368+03	1.2240+03	1.2992+03	1.3371+03	1.4883+03	1.5442+03
2	1.2492+03	1.2339+03	1.3096+03	1.3496+03	1.5061+03	1.5679+03
3	1.3255+03	1.3120+03	1.4011+03	1.4491+03	1.6336+03	1.7039+03
4	1.3425+03	1.3304+03	1.4208+03	1.4712+03	1.6605+03	1.7337+03
5	1.3764+03	1.3634+03	1.4595+03	1.5084+03	1.7082+03	1.7811+03
6	1.2352+03	1.2296+03	1.2821+03	1.3123+03	1.4294+03	1.4846+03
7	1.1938+03	1.1885+03	1.2430+03	1.2756+03	1.3998+03	1.4591+03
8	1.1468+03	1.1396+03	1.1964+03	1.2315+03	1.3689+03	1.4357+03
9	1.1045+03	1.0968+03	1.1537+03	1.1888+03	1.3293+03	1.3987+03
10	1.0641+03	1.0541+03	1.1154+03	1.1526+03	1.3045+03	1.3782+03
11	1.0248+03	1.0137+03	1.0760+03	1.1158+03	1.2733+03	1.3514+03
12	1.0439+03	1.0308+03	1.0983+03	1.1373+03	1.3022+03	1.3854+03
13	1.2033+03	1.1980+03	1.2522+03	1.2836+03	1.4072+03	1.4665+03
14	1.1514+03	1.1457+03	1.2025+03	1.2349+03	1.3667+03	1.4287+03
15	1.1129+03	1.1048+03	1.1619+03	1.1983+03	1.3384+03	1.4055+03
16	1.0860+03	1.0765+03	1.1357+03	1.1715+03	1.3179+03	1.3876+03
17	1.0276+03	1.0173+03	1.0803+03	1.1185+03	1.2713+03	1.3445+03
18	1.0452+03	1.0330+03	1.0997+03	1.1405+03	1.3056+03	1.3864+03
19	1.0536+03	1.0400+03	1.1087+03	1.1509+03	1.3232+03	1.4066+03
20	1.0650+03	1.0509+03	1.1231+03	1.1683+03	1.3522+03	1.4425+03
21	1.2690+03	1.2592+03	1.3149+03	1.3532+03	1.4886+03	1.5763+03
22	1.2578+03	1.2499+03	1.3057+03	1.3442+03	1.4776+03	1.5624+03
23	1.1972+03	1.1876+03	1.2438+03	1.2840+03	1.4234+03	1.5161+03
24	1.1357+03	1.1219+03	1.1778+03	1.2190+03	1.3663+03	1.4633+03
25	1.0914+03	1.0681+03	1.1264+03	1.1676+03	1.3283+03	1.4327+03
26	1.0342+03	1.0074+03	1.0685+03	1.1133+03	1.2789+03	1.3889+03
27	9.8049+02	9.4922+02	1.0080+03	1.0555+03	1.2266+03	1.3431+03
28	9.9039+02	9.5667+02	1.0190+03	1.0678+03	1.2478+03	1.3672+03
29	1.0007+03	9.6680+02	1.0331+03	1.0858+03	1.2699+03	1.3919+03
30	1.0082+03	9.7265+02	1.0430+03	1.0974+03	1.2895+03	1.4162+03
31	1.0093+03	9.7286+02	1.0465+03	1.0996+03	1.2990+03	1.4330+03
32	9.9208+02	9.5888+02	1.0285+03	1.0871+03	1.2935+03	1.4342+03
33	1.0150+03	9.8429+02	1.0554+03	1.1127+03	1.3156+03	1.4546+03
34	1.1183+03	1.0665+03	1.1740+03	1.2562+03	1.5441+03	1.7427+03

## 100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	342	350	358	366	374	382
	TWO 12	TWO 13	TWO 14	TWO 15	TWO 16	TWO 17
1	1.5745+03	1.6240+03	1.6852+03	1.7225+03	1.7707+03	1.8038+03
2	1.5979+03	1.6578+03	1.7167+03	1.7499+03	1.7983+03	1.8016+03
3	1.7394+03	1.7965+03	1.7895+03	1.7650+03	1.7672+03	1.8956+03
4	1.7704+03	1.8023+03	1.7728+03	1.7716+03	1.7738+03	1.7797+03
5	1.8162+03	1.7774+03	1.7772+03	1.7761+03	1.7763+03	1.9217+03
6	1.5147+03	1.5563+03	1.6021+03	1.6333+03	1.6733+03	1.6854+03
7	1.4915+03	1.5348+03	1.5846+03	1.6175+03	1.9132+03	1.7017+03
8	1.4738+03	1.5210+03	1.5757+03	1.6130+03	1.9433+03	1.7252+03
9	1.4373+03	1.4862+03	1.5426+03	1.5806+03	1.9349+03	1.7407+03
10	1.4210+03	1.4746+03	1.5349+03	1.5763+03	1.9605+03	1.7700+03
11	1.3950+03	1.4514+03	1.5163+03	1.5602+03	1.9713+03	1.6514+03
12	1.4317+03	1.4905+03	1.5568+03	1.6020+03	2.0033+03	1.6991+03
13	1.4986+03	1.5406+03	1.5894+03	1.6210+03		1.6901+03
14	1.4642+03	1.5081+03	1.5594+03	1.5943+03		1.6674+03
15	1.4438+03	1.4915+03	1.5473+03	1.5842+03		1.6640+03
16	1.4287+03	1.4794+03	1.5379+03	1.5754+03		1.6100+03
17	1.3861+03	1.4406+03	1.5024+03	1.5436+03		1.5278+03
18	1.4319+03	1.4903+03	1.5562+03	1.6015+03	1.6612+03	1.6525+03
19	1.4534+03	1.5135+03	1.5818+03	1.6278+03	1.6912+03	
20	1.4924+03	1.5590+03	1.6329+03	1.6799+03	1.7473+03	1.7833+03
21	1.6334+03	1.6956+03	1.7545+03	1.7865+03	1.8396+03	1.8624+03
22	1.6195+03	1.6820+03	1.7393+03	1.7698+03	1.8217+03	1.8461+03
23	1.5768+03	1.6442+03	1.7090+03	1.7403+03	1.7947+03	1.8166+03
24	1.5262+03	1.5922+03	1.6605+03	1.6956+03	1.7548+03	1.7826+03
25	1.4996+03	1.5711+03	1.6454+03	1.6859+03	1.7487+03	1.7783+03
26	1.4614+03	1.5357+03	1.6175+03	1.6594+03	1.7262+03	1.7573+03
27	1.4194+03	1.4973+03	1.5828+03	1.6276+03	1.6978+03	1.7320+03
28	1.4478+03	1.5285+03	1.6177+03	1.6643+03	1.7364+03	1.7697+03
29	1.4729+03	1.5570+03	1.6470+03	1.6938+03	1.7693+03	1.8060+03
30	1.5013+03	1.5909+03	1.6836+03	1.7308+03	1.8076+03	1.8436+03
31	1.5213+03	1.6161+03	1.7122+03	1.7623+03	1.8412+03	1.8750+03
32	1.5259+03	1.6229+03	1.7215+03	1.7735+03	1.8536+03	1.8916+03
33	1.5437+03	1.6427+03	5.1138+02	1.7915+03	1.8720+03	1.9083+03
34	1.8654+03	1.9045+03	1.8980+03	1.8802+03	1.8782+03	1.8815+03

100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	398	406	414	422	430	438
	TWO 19	TWO 20	TWO 21	TWO 22	TWO 23	TWO 24
1	1.7877+03		1.7626+03		1.7632+03	1.7626+03
2	1.7950+03		1.7636+03		1.7624+03	1.7614+03
3	1.8059+03				1.7686+03	1.7677+03
4	1.8062+03				1.7698+03	1.7695+03
5	1.8107+03				1.7734+03	1.7729+03
6	1.7694+03				1.7454+03	1.7450+03
7	1.7639+03				1.7485+03	1.7468+03
8	1.7727+03				1.7517+03	1.7507+03
9	1.7466+03				1.7493+03	1.7488+03
10	1.7575+03				1.7517+03	1.7513+03
11	1.7498+03				1.7495+03	1.7498+03
12	1.7988+03				1.7536+03	1.7527+03
13	1.7377+03				1.6970+03	1.6969+03
14	1.7392+03				1.6957+03	1.6946+03
15	1.7471+03				1.7021+03	1.7008+03
16	1.7465+03				1.7030+03	1.7027+03
17	1.7256+03				1.7030+03	1.7030+03
18	1.7465+03				1.7057+03	1.7049+03
19					1.7574+03	1.7567+03
20	1.7785+03				1.7582+03	1.7572+03
21	1.8761+03	1.8604+03	1.8596+03	1.8622+03	1.8627+03	1.8621+03
22	1.8840+03	1.8583+03	1.8571+03	1.8611+03	1.8611+03	1.8591+03
23	1.8943+03	1.8613+03	1.8610+03	1.8637+03	1.8636+03	1.8625+03
24	1.8770+03	1.8831+03	1.8640+03	1.8663+03	1.8651+03	1.8636+03
25	1.8825+03	1.8827+03	1.8677+03	1.8693+03	1.8687+03	1.8672+03
26	1.8675+03	1.9010+03	1.8686+03	1.8688+03	1.8683+03	1.8667+03
27	1.8487+03	1.8890+03	1.8689+03	1.8688+03	1.8692+03	1.8667+03
28	1.8884+03	1.8720+03	1.8688+03	1.8705+03	1.8704+03	1.8684+03
29	1.9122+03	1.8709+03	1.8679+03	1.8695+03	1.8700+03	1.8694+03
30	1.8934+03	1.8682+03	1.8671+03	1.8689+03	1.8686+03	1.8680+03
31	1.8921+03	1.8692+03	1.8690+03	1.8707+03	1.8704+03	1.8698+03
32	1.8922+03	1.8693+03	1.8701+03	1.8714+03	1.8730+03	1.8715+03
33	1.8912+03	1.8696+03	1.8716+03	1.8724+03	1.8725+03	1.8706+03
34	1.9112+03	1.8794+03	1.8804+03	1.8800+03	1.8820+03	1.8807+03



100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	446	454	462	470	478	509
	TWO 25	TWO 26	TWO 27	TB OUT	TB OUT	CND IN
1	1.7615+03	1.7595+03	1.7593+03	1.7234+03	1.7199+03	1.7201+03
2	1.7611+03	1.7605+03	1.7589+03	1.7215+03	1.7178+03	1.7184+03
3	1.7707+03	1.7684+03	1.7660+03	1.7242+03	1.7206+03	1.7212+03
4	1.7731+03	1.7698+03	1.7684+03	1.7248+03	1.7213+03	1.7233+03
5	1.7772+03	1.7733+03	1.7717+03	1.7267+03	1.7232+03	1.7252+03
6	1.7443+03	1.7403+03	1.7421+03	1.7175+03	1.7143+03	1.7150+03
7	1.7475+03	1.7438+03	1.7464+03	1.7192+03	1.7160+03	1.7168+03
8	1.7499+03	1.7474+03	1.7483+03	1.7210+03	1.7176+03	1.7181+03
9	1.7484+03	1.7458+03	1.7470+03	1.7187+03	1.7153+03	1.7158+03
10	1.7506+03	1.7480+03	1.7493+03	1.7199+03	1.7162+03	1.7161+03
11	1.7493+03	1.7459+03	1.7468+03	1.7180+03	1.7145+03	1.7146+03
12	1.7539+03	1.7491+03	1.7507+03	1.7195+03	1.7164+03	1.7162+03
13	1.6954+03	1.6929+03	1.6942+03	1.6694+03	1.6657+03	1.6673+03
14	1.6940+03	1.6910+03	1.6941+03	1.6684+03	1.6646+03	1.6659+03
15	1.6987+03	1.6980+03	1.6979+03	1.6707+03	1.6673+03	1.6686+03
16	1.7017+03	1.7001+03	1.7000+03	1.6718+03	1.6682+03	1.6688+03
17	1.7020+03	1.6995+03	1.7003+03	1.6707+03	1.6674+03	1.6679+03
18	1.7060+03	1.7030+03	1.7030+03	1.6723+03	1.6688+03	1.6692+03
19	1.7568+03	1.7540+03	1.7542+03	1.7235+03	1.7198+03	1.7192+03
20	1.7578+03	1.7544+03	1.7550+03	1.7234+03	1.7199+03	1.7194+03
21	1.8575+03	1.8587+03	1.8545+03	1.8349+03	1.8308+03	1.8309+03
22	1.8553+03	1.8570+03	1.8518+03	1.8347+03	1.8306+03	1.8315+03
23	1.8587+03	1.8590+03	1.8552+03	1.8362+03	1.8320+03	1.8329+03
24	1.8597+03	1.8609+03	1.8566+03	1.8366+03	1.8326+03	1.8337+03
25	1.8630+03	1.8647+03	1.8601+03	1.8379+03	1.8344+03	1.8326+03
26	1.8634+03	1.8659+03	1.8603+03	1.8379+03	1.8339+03	1.8333+03
27	1.8629+03	1.8650+03	1.8585+03	1.8363+03	1.8324+03	1.8327+03
28	1.8647+03	1.8677+03	1.8603+03	1.8376+03	1.8336+03	1.8333+03
29	1.8657+03	1.8679+03	1.8615+03	1.8364+03	1.8334+03	1.8316+03
30	1.8630+03	1.8670+03	1.8607+03	1.8359+03	1.8330+03	1.8333+03
31	1.8649+03	1.8684+03	1.8621+03	1.8370+03	1.8341+03	1.8344+03
32	1.8666+03	1.8706+03	1.8625+03	1.8374+03	1.8338+03	1.8342+03
33	1.8681+03	1.8625+03	1.8645+03	1.8376+03	1.8339+03	1.8324+03
34	1.8781+03	1.8713+03	1.8742+03	1.8393+03	1.8356+03	1.8362+03

## 100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	516	523	530	537	544	551
	CND 37	CND 38	CND 39	CND 40	CND 41	CND 42
1	1.7218+03	1.7143+03	1.7168+03	1.6417+03	1.5658+03	1.4969+03
2	1.7206+03	1.7136+03	1.7156+03	1.6859+03	1.6079+03	1.5247+03
3	1.7225+03	1.7138+03	1.7167+03	1.7148+03	1.7163+03	1.7191+03
4	1.7250+03	1.7155+03	1.7188+03	1.7166+03	1.7186+03	1.7217+03
5	1.7264+03	1.7173+03	1.7197+03	1.7179+03	1.7194+03	1.7230+03
6	1.7176+03	1.5677+03	1.4541+03	1.3601+03	1.2946+03	1.2322+03
7	1.7198+03	1.5715+03	1.4591+03	1.3637+03	1.2965+03	1.2340+03
8	1.7206+03	1.5890+03	1.4714+03	1.3756+03	1.3087+03	1.2454+03
9	1.7186+03	1.5797+03	1.4647+03	1.3694+03	1.3024+03	1.2392+03
10	1.7188+03	1.6064+03	1.4851+03	1.3868+03	1.3149+03	1.2518+03
11	1.7172+03	1.6108+03	1.4886+03	1.3897+03	1.3181+03	1.2533+03
12	1.7191+03	1.6823+03	1.5417+03	1.4318+03	1.3542+03	1.2872+03
13	1.6702+03	1.6058+03	1.4835+03	1.3865+03	1.3179+03	1.2539+03
14	1.6684+03	1.5992+03	1.4806+03	1.3859+03	1.3185+03	1.2554+03
15	1.6713+03	1.6112+03	1.4900+03	1.3923+03	1.3241+03	1.2597+03
16	1.6718+03	1.6203+03	1.4948+03	1.3942+03	1.3245+03	1.2599+03
17	1.6709+03	1.6121+03	1.4890+03	1.3902+03	1.3211+03	1.2569+03
18	1.6718+03	1.6692+03	1.5676+03	1.4520+03	1.3707+03	1.2999+03
19	1.7222+03	1.7093+03	1.5697+03	1.4541+03	1.3748+03	1.3040+03
20	1.7225+03	1.7190+03	1.6400+03	1.5063+03	1.4195+03	1.3407+03
21	1.8334+03	1.5977+03	1.4486+03	1.3320+03	1.2549+03	1.1855+03
22	1.8342+03	1.5574+03	1.4137+03	1.3028+03	1.2257+03	1.1592+03
23	1.8362+03	1.5709+03	1.4120+03	1.3003+03	1.2228+03	1.1557+03
24	1.8363+03	1.5431+03	1.4020+03	1.2931+03	1.2183+03	1.1528+03
25	1.8350+03	1.5583+03	1.4155+03	1.3037+03	1.2289+03	1.1601+03
26	1.8358+03	1.5611+03	1.4184+03	1.3063+03	1.2310+03	1.1620+03
27	1.8350+03	1.5559+03	1.4152+03	1.3027+03	1.2294+03	1.1625+03
28	1.8361+03	1.5942+03	1.4431+03	1.3255+03	1.2492+03	1.1802+03
29	1.8343+03	1.6373+03	1.4772+03	1.3517+03	1.2710+03	1.2003+03
30	1.8354+03	1.6779+03	1.5057+03	1.3744+03	1.2905+03	1.2175+03
31	1.8371+03	1.7252+03	1.5332+03	1.3935+03	1.3081+03	1.2311+03
32	1.8366+03	1.7645+03	1.5568+03	1.4116+03	1.3207+03	1.2432+03
33	1.8349+03	1.7785+03	1.5738+03	1.4268+03	1.3332+03	1.2506+03
34	1.8380+03	1.8240+03	1.8306+03	1.8261+03	1.7766+03	1.5709+03

## 100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	558	565	572	579	586	593
	CND 43	CND 44	CND 45	CND 46	CND 47	CNDDIS
1	1.4369+03	1.3845+03	1.3419+03	1.2998+03	1.2628+03	1.2134+03
2	1.4633+03	1.4080+03	1.3639+03	1.3190+03	1.2801+03	1.2296+03
3	1.6709+03	1.5814+03	1.5149+03	1.4521+03	1.3999+03	1.3329+03
4	1.7186+03	1.6332+03	1.5582+03	1.4886+03	1.4326+03	1.3600+03
5	1.7223+03	1.7147+03	1.6312+03	1.5479+03	1.4844+03	1.4055+03
6	1.1806+03	1.1369+03	1.1021+03	1.0663+03	1.0367+03	9.9632+02
7	1.1811+03	1.1375+03	1.1029+03	1.0672+03	1.0372+03	9.9696+02
8	1.1912+03	1.1470+03	1.1114+03	1.0752+03	1.0448+03	1.0039+03
9	1.1862+03	1.1420+03	1.1070+03	1.0712+03	1.0405+03	1.0004+03
10	1.1981+03	1.1530+03	1.1171+03	1.0806+03	1.0494+03	1.0098+03
11	1.1995+03	1.1544+03	1.1187+03	1.0823+03	1.0514+03	1.0100+03
12	1.2306+03	1.1826+03	1.1447+03	1.1067+03	1.0749+03	1.0315+03
13	1.1994+03	1.1547+03	1.1193+03	1.0835+03	1.0525+03	1.0116+03
14	1.2008+03	1.1554+03	1.1202+03	1.0848+03	1.0542+03	1.0121+03
15	1.2047+03	1.1596+03	1.1236+03	1.0875+03	1.0567+03	1.0140+03
16	1.2045+03	1.1583+03	1.1224+03	1.0859+03	1.0547+03	1.0131+03
17	1.2019+03	1.1568+03	1.1209+03	1.0845+03	1.0533+03	1.0121+03
18	1.2398+03	1.1901+03	1.1501+03	1.1115+03	1.0790+03	1.0354+03
19	1.2437+03	1.1932+03	1.1542+03	1.1162+03	1.0837+03	1.0401+03
20	1.2763+03	1.2227+03	1.1801+03	1.1390+03	1.1052+03	1.0589+03
21	1.1312+03	1.0862+03	1.0497+03	1.0125+03	9.8248+02	9.4274+02
22	1.1069+03	1.0624+03	1.0260+03	9.9006+02	9.6090+02	9.2185+02
23	1.1041+03	1.0597+03	1.0232+03	9.8745+02	9.5856+02	9.1970+02
24	1.1006+03	1.0565+03	1.0208+03	9.8517+02	9.5663+02	9.1814+02
25	1.1073+03	1.0632+03	1.0279+03	9.9241+02	9.6375+02	9.2579+02
26	1.1093+03	1.0654+03	1.0293+03	9.9318+02	9.6362+02	9.2523+02
27	1.1104+03	1.0658+03	1.0297+03	9.9383+02	9.6452+02	9.2645+02
28	1.1251+03	1.0803+03	1.0437+03	1.0065+03	9.7647+02	9.3728+02
29	1.1435+03	1.0971+03	1.0600+03	1.0222+03	9.9108+02	9.5115+02
30	1.1580+03	1.1106+03	1.0733+03	1.0355+03	1.0034+03	9.6243+02
31	1.1700+03	1.1208+03	1.0823+03	1.0431+03	1.0103+03	9.6794+02
32	1.1791+03	1.1301+03	1.0922+03	1.0519+03	1.0180+03	9.7509+02
33	1.1867+03	1.1357+03	1.0966+03	1.0573+03	1.0245+03	9.8117+02
34	1.4398+03	1.3467+03	1.2787+03	1.2158+03	1.1673+03	1.1074+03

## 100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	600	607	614	621	628	635
	PUMPIN	TRADTR	TRADTL	TRADMR	TRADML	TRADBR
1	1.1099+03	1.0633+03	1.0430+03	1.0586+03	1.0584+03	9.6937+02
2	1.1228+03	1.0755+03	1.0536+03	1.0705+03	1.0691+03	9.7998+02
3	1.1940+03	1.1333+03	1.1105+03	1.1324+03	1.1319+03	1.0391+03
4	1.2140+03	1.1204+03	1.1202+03	1.1442+03	1.1437+03	1.0515+03
5	1.2453+03	1.1333+03	1.1331+03	1.1596+03	1.1591+03	1.0673+03
6	9.1020+02	9.0410+02	8.8516+02	8.9238+02	8.9176+02	8.2706+02
7	9.1136+02	9.1337+02	8.9450+02	9.0223+02	9.0122+02	8.3379+02
8	9.1559+02	9.3082+02	9.1163+02	9.1987+02	9.1848+02	8.4742+02
9	9.1339+02	9.3466+02	9.1547+02	9.2348+02	9.2204+02	8.4909+02
10	9.2168+02	9.5349+02	9.3407+02	9.4286+02	9.4130+02	8.6398+02
11	9.1942+02	9.6117+02	9.4103+02	9.5005+02	9.4823+02	8.6963+02
12	9.3746+02	9.7877+02	9.5865+02	9.7007+02	9.6850+02	8.8749+02
13	9.2290+02	9.1674+02	8.9836+02	9.0599+02	9.0544+02	8.3833+02
14	9.2490+02	9.2634+02	9.0772+02	9.1584+02	9.1529+02	8.4481+02
15	9.2605+02	9.3830+02	9.1906+02	9.2796+02	9.2714+02	8.5394+02
16	9.2292+02	9.4452+02	9.2539+02	9.3403+02	9.3322+02	8.5824+02
17	9.2230+02	9.5345+02	9.3423+02	9.4270+02	9.4152+02	8.6415+02
18	9.3989+02	9.7685+02	9.5728+02	9.6800+02	9.6735+02	8.8661+02
19	9.4425+02	9.9011+02	9.7037+02	9.8105+02	9.7993+02	8.9771+02
20	9.5331+02	1.0095+03	9.8959+02	1.0012+03	1.0001+03	9.1599+02
21	8.4973+02	9.0605+02	9.0817+02	9.0988+02	8.8017+02	8.5037+02
22	8.3212+02	8.9101+02	8.9292+02	8.9359+02	8.6467+02	8.3582+02
23	8.2846+02	9.0124+02	9.0381+02	9.0470+02	8.7453+02	8.4232+02
24	8.2909+02	9.0439+02	9.0658+02	9.0633+02	8.7579+02	8.4232+02
25	8.3530+02	9.1634+02	9.2070+02	9.1906+02	8.8712+02	8.5203+02
26	8.3396+02	9.2433+02	9.2869+02	9.2830+02	8.9582+02	8.5930+02
27	8.3588+02	9.3045+02	9.3476+02	9.3437+02	9.0161+02	8.6408+02
28	8.4475+02	9.4230+02	9.4668+02	9.4817+02	9.1545+02	8.7706+02
29	8.5556+02	9.5286+02	9.5839+02	9.6164+02	9.2858+02	8.9030+02
30	8.6143+02	9.6379+02	9.6931+02	9.7299+02	9.3951+02	9.0074+02
31	8.6544+02	9.7346+02	9.7944+02	9.8428+02	9.5044+02	9.1051+02
32	8.7317+02	9.8950+02	9.8938+02	9.9354+02	9.5968+02	9.1931+02
33	8.7917+02	9.8503+02	9.9254+02	9.9856+02	9.6513+02	9.2196+02
34	9.6380+02	1.1358+03	1.1356+03	1.1532+03	1.1164+03	1.0733+03

## 100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	642	663	799	819	823	839
	TRADBL	PHCASE	QN PH	QN B	Q/A	FLOW
1	9.6554+02	8.1059+02	9.3320-01	1.3066+01	9.1811+04	7.0086-02
2	9.7607+02	8.1402+02	9.7350-01	1.3780+01	9.6830+04	6.9851-02
3	1.0349+03	8.3953+02	9.7700-01	1.6103+01	1.1315+05	6.9871-02
4	1.0472+03	8.4598+02	9.4100-01	1.7596+01	1.2364+05	7.0437-02
5	1.0631+03	8.5639+02	9.1860-01	1.8389+01	1.2921+05	7.0371-02
6	8.2266+02	1.0017+03	3.3440+00	6.8891+00	4.8407+04	4.5874-02
7	8.2957+02	9.7123+02	2.9597+00	7.3093+00	5.1359+04	4.5856-02
8	8.4330+02	9.2283+02	2.3765+00	8.1519+00	5.7280+04	4.5679-02
9	8.4498+02	8.8367+02	1.9560+00	8.3525+00	5.8689+04	4.5654-02
10	8.6007+02	8.2841+02	1.4323+00	9.0172+00	6.3360+04	4.5653-02
11	8.6534+02	7.6571+02	9.5550-01	9.3938+00	6.6007+04	4.5648-02
12	8.8346+02	7.7124+02	9.4440-01	1.0119+01	7.1102+04	4.6219-02
13	8.3438+02	9.6998+02	2.8460+00	7.3864+00	5.1901+04	4.6588-02
14	8.4097+02	9.2769+02	2.3562+00	7.9938+00	5.6169+04	4.6556-02
15	8.5000+02	8.8338+02	1.8786+00	8.4805+00	5.9589+04	4.6544-02
16	8.5441+02	8.4895+02	1.6155+00	8.9192+00	6.2672+04	4.6183-02
17	8.6015+02	7.6171+02	9.3080-01	9.2728+00	6.5156+04	4.6154-02
18	8.8259+02	7.6875+02	9.3420-01	1.0033+01	7.0495+04	4.6214-02
19	8.9359+02	7.7656+02	9.5460-01	1.0477+01	7.3616+04	4.6444-02
20	9.1190+02	7.8092+02	9.4780-01	1.1139+01	7.8270+04	4.5999-02
21	8.3814+02	1.0032+03	3.2853+00	6.9866+00	4.9092+04	3.7017-02
22	8.2413+02	1.0024+03	3.2955+00	6.3212+00	4.4416+04	3.5525-02
23	8.3016+02	9.6727+02	2.8110+00	7.0675+00	4.9660+04	3.5156-02
24	8.2948+02	9.2352+02	2.3175+00	7.1300+00	5.0100+04	3.5489-02
25	8.3959+02	8.7267+02	1.8410+00	7.7063+00	5.4149+04	3.5492-02
26	8.4645+02	8.2359+02	1.3610+00	8.0159+00	5.6325+04	3.5476-02
27	8.5071+02	7.5357+02	8.8620-01	8.4283+00	5.9222+04	3.5464-02
28	8.6325+02	7.5716+02	8.9260-01	8.8762+00	6.2369+04	3.5504-02
29	8.7704+02	7.5874+02	8.9260-01	9.1878+00	6.4559+04	3.5567-02
30	8.8669+02	7.6226+02	8.6535-01	9.5196+00	6.6890+04	3.5611-02
31	8.9625+02	7.6315+02	8.5090-01	1.0007+01	7.0313+04	3.5629-02
32	9.0469+02	7.6546+02	8.6220-01	1.0268+01	7.2149+04	3.5296-02
33	9.0982+02	7.6031+02	8.6448-01	1.0463+01	7.3518+04	3.5680-02
34	1.0571+03	8.0399+02	8.5400-01	1.5122+01	1.0626+05	3.5945-02

100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	842	853	855	858	859	1003
	G	X CUT	EB CUT	VELOUT	P SAT	TWI 8
1	8.4025+04	1.0111-01	4.9549+02	1.9572+01	6.0296+01	1.2688+03
2	8.3743+04	1.1777-01	5.0790+02	2.2871+01	5.9838+01	1.2776+03
3	8.3767+04	1.7757-01	5.5425+02	3.4177+01	6.0483+01	1.3639+03
4	8.4446+04	2.0582-01	5.7600+02	3.9855+01	6.0623+01	1.3803+03
5	8.4367+04	2.2823-01	5.9348+02	4.3871+01	6.1075+01	1.4172+03
6	5.4998+04	5.8265-02	4.6150+02	7.5251+00	5.9020+01	1.2661+03
7	5.4976+04	5.9061-02	4.6245+02	7.5813+00	5.9392+01	1.2260+03
8	5.4763+04	7.0359-02	4.7146+02	8.9448+00	5.9771+01	1.1773+03
9	5.4734+04	6.6130-02	4.6775+02	8.4694+00	5.9254+01	1.1341+03
10	5.4733+04	7.3708-02	4.7379+02	9.4051+00	5.9494+01	1.0942+03
11	5.4726+04	7.4751-02	4.7423+02	9.5964+00	5.9089+01	1.0539+03
12	5.5411+04	9.4890-02	4.9003+02	1.2262+01	5.9475+01	1.0745+03
13	5.5854+04	7.3098-02	4.6344+02	1.1472+01	4.8926+01	1.2349+03
14	5.5816+04	7.6725-02	4.6607+02	1.2083+01	4.8726+01	1.1838+03
15	5.5801+04	7.9327-02	4.6858+02	1.2365+01	4.9209+01	1.1420+03
16	5.5368+04	8.5730-02	4.7377+02	1.3205+01	4.9406+01	1.1148+03
17	5.5334+04	8.1380-02	4.7019+02	1.2575+01	4.9220+01	1.0585+03
18	5.5405+04	1.0461-01	4.8860+02	1.6086+01	4.9522+01	1.0760+03
19	5.5681+04	1.0450-01	4.9809+02	1.3404+01	6.0298+01	1.0841+03
20	5.5147+04	1.2771-01	5.1590+02	1.6222+01	6.0309+01	1.0969+03
21	4.4379+04	8.3985-02	5.0414+02	5.8051+00	9.0042+01	1.2986+03
22	4.2590+04	6.7415-02	4.9193+02	4.4740+00	8.9995+01	1.2911+03
23	4.2148+04	8.0927-02	5.0215+02	5.2916+00	9.0441+01	1.2273+03
24	4.2547+04	6.4304-02	4.9004+02	4.2381+00	9.0590+01	1.1611+03
25	4.2551+04	7.2330-02	4.9624+02	4.7455+00	9.1061+01	1.1083+03
26	4.2532+04	6.8838-02	4.9362+02	4.5182+00	9.0974+01	1.0496+03
27	4.2517+04	7.0269-02	4.9437+02	4.6320+00	9.0505+01	9.8801+02
28	4.2565+04	8.8048-02	5.0767+02	5.7882+00	9.0895+01	9.9794+02
29	4.2641+04	1.0156-01	5.1745+02	6.7027+00	9.0674+01	1.0113+03
30	4.2693+04	1.1497-01	5.2721+02	7.6076+00	9.0532+01	1.0205+03
31	4.2715+04	1.3232-01	5.4017+02	8.7308+00	9.0877+01	1.0228+03
32	4.2316+04	1.4135-01	5.4681+02	9.2384+00	9.0890+01	1.0042+03
33	4.2776+04	1.5042-01	5.5349+02	9.9344+00	9.0928+01	1.0307+03
34	4.3093+04	3.3822-01	6.9157+02	2.2387+01	9.1456+01	1.1386+03

## 100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	1010	1017	1024	1031	1038	1045
	TWI 9	TWI 10	TWI 11	TWI 12	TWI 13	TWI 14
1	1.3068+03	1.4584+03	1.5143+03	1.5447+03	1.5943+03	1.6556+03
2	1.3177+03	1.4745+03	1.5365+03	1.5665+03	1.6266+03	1.6856+03
3	1.4121+03	1.5971+03	1.6675+03	1.7031+03	1.7603+03	1.7533+03
4	1.4308+03	1.6206+03	1.6940+03	1.7308+03	1.7628+03	1.7331+03
5	1.4662+03	1.6667+03	1.7397+03	1.7749+03	1.7360+03	1.7358+03
6	1.2963+03	1.4135+03	1.4688+03	1.4990+03	1.5405+03	1.5864+03
7	1.2586+03	1.3830+03	1.4423+03	1.4747+03	1.5180+03	1.5679+03
8	1.2125+03	1.3501+03	1.4169+03	1.4551+03	1.5023+03	1.5572+03
9	1.1693+03	1.3100+03	1.3794+03	1.4181+03	1.4670+03	1.5235+03
10	1.1314+03	1.2836+03	1.3573+03	1.4002+03	1.4539+03	1.5143+03
11	1.0937+03	1.2514+03	1.3297+03	1.3733+03	1.4298+03	1.4947+03
12	1.1135+03	1.2787+03	1.3620+03	1.4084+03	1.4672+03	1.5337+03
13	1.2664+03	1.3902+03	1.4495+03	1.4816+03	1.5237+03	1.5726+03
14	1.2162+03	1.3482+03	1.4102+03	1.4458+03	1.4898+03	1.5412+03
15	1.1785+03	1.3187+03	1.3860+03	1.4243+03	1.4720+03	1.5279+03
16	1.1506+03	1.2972+03	1.3670+03	1.4081+03	1.4589+03	1.5175+03
17	1.0967+03	1.2497+03	1.3230+03	1.3647+03	1.4193+03	1.4812+03
18	1.1170+03	1.2823+03	1.3633+03	1.4088+03	1.4673+03	1.5333+03
19	1.1263+03	1.2989+03	1.3824+03	1.4293+03	1.4895+03	1.5579+03
20	1.1422+03	1.3265+03	1.4168+03	1.4668+03	1.5336+03	1.6076+03
21	1.3371+03	1.4726+03	1.5604+03	1.6175+03	1.6798+03	1.7387+03
22	1.3296+03	1.4631+03	1.5479+03	1.6052+03	1.6677+03	1.7251+03
23	1.2675+03	1.4072+03	1.4999+03	1.5607+03	1.6282+03	1.6930+03
24	1.2024+03	1.3498+03	1.4469+03	1.5099+03	1.5760+03	1.6444+03
25	1.1495+03	1.3104+03	1.4150+03	1.4819+03	1.5535+03	1.6279+03
26	1.0945+03	1.2603+03	1.3704+03	1.4430+03	1.5174+03	1.5993+03
27	1.0356+03	1.2069+03	1.3236+03	1.4000+03	1.4779+03	1.5636+03
28	1.0469+03	1.2271+03	1.3467+03	1.4273+03	1.5082+03	1.5976+03
29	1.0641+03	1.2485+03	1.3707+03	1.4518+03	1.5360+03	1.6262+03
30	1.0750+03	1.2673+03	1.3942+03	1.4795+03	1.5692+03	1.6621+03
31	1.0760+03	1.2758+03	1.4099+03	1.4984+03	1.5934+03	1.6896+03
32	1.0629+03	1.2696+03	1.4106+03	1.5024+03	1.5995+03	1.6983+03
33	1.0881+03	1.2913+03	1.4305+03	1.5198+03	1.6190+03	4.8570+02
34	1.2209+03	1.5095+03	1.7086+03	1.8315+03	1.8708+03	1.8642+03

100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	1052	1059	1066	1080	1087	1094
	TWI 15	TWI 16	TWI 17	TWI 19	TWI 20	TWI 21
1	1.6930+03	1.7413+03	1.7745+03	1.7583+03		1.7332+03
2	1.7188+03	1.7673+03	1.7706+03	1.7640+03		1.7326+03
3	1.7288+03	1.7309+03	1.8597+03	1.7698+03		
4	1.7320+03	1.7342+03	1.7401+03	1.7666+03		
5	1.7347+03	1.7349+03	1.8807+03	1.7694+03		
6	1.6177+03	1.6577+03	1.6698+03	1.7539+03		
7	1.6009+03	1.8969+03	1.6852+03	1.7475+03		
8	1.5945+03	1.9252+03	1.7068+03	1.7543+03		
9	1.5615+03	1.9163+03	1.7218+03	1.7277+03		
10	1.5557+03	1.9405+03	1.7497+03	1.7372+03		
11	1.5387+03	1.9504+03	1.6300+03	1.7286+03		
12	1.5790+03	1.9808+03	1.6762+03	1.7761+03		
13	1.6042+03		1.6734+03	1.7210+03		
14	1.5761+03		1.6493+03	1.7211+03		
15	1.5649+03		1.6448+03	1.7280+03		
16	1.5551+03		1.5897+03	1.7264+03		
17	1.5225+03		1.5066+03	1.7047+03		
18	1.5787+03	1.6384+03	1.6297+03	1.7239+03		
19	1.6040+03	1.6675+03				
20	1.6547+03	1.7222+03	1.7583+03	1.7535+03		
21	1.7707+03	1.8239+03	1.8468+03	1.8605+03	1.8447+03	1.8439+03
22	1.7555+03	1.8075+03	1.8319+03	1.8699+03	1.8441+03	1.8429+03
23	1.7244+03	1.7788+03	1.8008+03	1.8785+03	1.8455+03	1.8452+03
24	1.6795+03	1.7387+03	1.7666+03	1.8611+03	1.8672+03	1.8480+03
25	1.6684+03	1.7313+03	1.7610+03	1.8652+03	1.8654+03	1.8505+03
26	1.6412+03	1.7081+03	1.7392+03	1.8495+03	1.8831+03	1.8507+03
27	1.6084+03	1.6787+03	1.7130+03	1.8298+03	1.8702+03	1.8501+03
28	1.6442+03	1.7163+03	1.7498+03	1.8686+03	1.8521+03	1.8489+03
29	1.6730+03	1.7486+03	1.7853+03	1.8917+03	1.8503+03	1.8474+03
30	1.7094+03	1.7862+03	1.8222+03	1.8721+03	1.8469+03	1.8458+03
31	1.7397+03	1.8188+03	1.8526+03	1.8697+03	1.8468+03	1.8466+03
32	1.7504+03	1.8306+03	1.8686+03	1.8693+03	1.8464+03	1.8471+03
33	1.7680+03	1.8486+03	1.8850+03	1.8678+03	1.8462+03	1.8482+03
34	1.8464+03	1.8444+03	1.8477+03	1.8775+03	1.8456+03	1.8466+03



## 100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

	1101	1108	1115	1122	1129	1136
	TWI 22	TWI 23	TWI 24	TWI 25	TWI 26	TWI 27
1		1.7337+03	1.7332+03	1.7320+03	1.7301+03	1.7299+03
2		1.7313+03	1.7303+03	1.7300+03	1.7295+03	1.7278+03
3		1.7323+03	1.7314+03	1.7345+03	1.7321+03	1.7297+03
4		1.7302+03	1.7299+03	1.7335+03	1.7302+03	1.7288+03
5		1.7321+03	1.7315+03	1.7359+03	1.7319+03	1.7303+03
6		1.7299+03	1.7294+03	1.7288+03	1.7248+03	1.7265+03
7		1.7320+03	1.7304+03	1.7310+03	1.7274+03	1.7299+03
8		1.7334+03	1.7323+03	1.7316+03	1.7290+03	1.7299+03
9		1.7304+03	1.7300+03	1.7295+03	1.7270+03	1.7282+03
10		1.7314+03	1.7310+03	1.7302+03	1.7277+03	1.7290+03
11		1.7283+03	1.7286+03	1.7281+03	1.7247+03	1.7256+03
12		1.7308+03	1.7299+03	1.7310+03	1.7263+03	1.7279+03
13		1.6803+03	1.6802+03	1.6787+03	1.6762+03	1.6775+03
14		1.6776+03	1.6765+03	1.6759+03	1.6729+03	1.6760+03
15		1.6829+03	1.6816+03	1.6795+03	1.6788+03	1.6787+03
16		1.6828+03	1.6825+03	1.6815+03	1.6799+03	1.6798+03
17		1.6820+03	1.6820+03	1.6810+03	1.6785+03	1.6793+03
18		1.6830+03	1.6822+03	1.6833+03	1.6804+03	1.6803+03
19		1.7338+03	1.7331+03	1.7332+03	1.7303+03	1.7306+03
20		1.7331+03	1.7321+03	1.7327+03	1.7293+03	1.7299+03
21	1.8466+03	1.8471+03	1.8464+03	1.8418+03	1.8431+03	1.8389+03
22	1.8470+03	1.8470+03	1.8450+03	1.8412+03	1.8428+03	1.8377+03
23	1.8479+03	1.8478+03	1.8467+03	1.8429+03	1.8432+03	1.8394+03
24	1.8504+03	1.8492+03	1.8476+03	1.8438+03	1.8449+03	1.8406+03
25	1.8521+03	1.8515+03	1.8500+03	1.8458+03	1.8475+03	1.8429+03
26	1.8508+03	1.8503+03	1.8488+03	1.8454+03	1.8480+03	1.8424+03
27	1.8499+03	1.8503+03	1.8478+03	1.8441+03	1.8462+03	1.8396+03
28	1.8506+03	1.8506+03	1.8486+03	1.8448+03	1.8479+03	1.8405+03
29	1.8490+03	1.8494+03	1.8488+03	1.8452+03	1.8473+03	1.8410+03
30	1.8476+03	1.8473+03	1.8467+03	1.8417+03	1.8457+03	1.8394+03
31	1.8483+03	1.8480+03	1.8474+03	1.8425+03	1.8460+03	1.8397+03
32	1.8485+03	1.8500+03	1.8486+03	1.8436+03	1.8477+03	1.8395+03
33	1.8490+03	1.8492+03	1.8472+03	1.8447+03	1.8391+03	1.8411+03
34	1.8462+03	1.8482+03	1.8469+03	1.8443+03	1.8375+03	1.8404+03

100 KW BOILING POTASSIUM DATA FOR 0.742 I.D. TUBE

1137            1138

DT 27            H 27

1	8.2437+00	1.1137+04
2	8.2196+00	1.1780+04
3	7.3264+00	1.5444+04
4	5.7620+00	2.1457+04
5	5.3802+00	2.4016+04
6	1.0623+01	4.5566+03
7	1.2296+01	4.1768+03
8	1.0615+01	5.3960+03
9	1.1190+01	5.2447+03
10	1.0919+01	5.8026+03
11	9.4112+00	7.0136+03
12	9.9130+00	7.1726+03
13	9.9202+00	5.2319+03
14	9.5026+00	5.9109+03
15	9.6954+00	6.1461+03
16	9.7991+00	6.3957+03
17	1.0290+01	6.3319+03
18	9.7118+00	7.2587+03
19	8.9897+00	8.1889+03
20	8.2429+00	9.4955+03
21	6.0668+00	8.0920+03
22	5.0077+00	8.8697+03
23	5.2514+00	9.4565+03
24	6.0192+00	8.3233+03
25	6.6990+00	8.0831+03
26	6.5270+00	8.6295+03
27	5.3039+00	1.1166+04
28	4.8440+00	1.2876+04
29	6.0685+00	1.0638+04
30	4.9263+00	1.3578+04
31	4.1522+00	1.6934+04
32	3.9128+00	1.8439+04
33	5.3893+00	1.3642+04
34	2.9791+00	3.5667+04

APPENDIX C

50 KW CONDENSING DATA

TABLE C1. NOMENCLATURE FOR CONDENSING HEAT TRANSFER RESULTS FROM THE  
50 KW FACILITY.  
(Table C2)

Column	Symbol	Identification
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131	DATE (e.g., 5.1730 + 03 = 5/17/63)	
132	TIME (e.g., 8.1000 + 02 = 0810)	

Fluid Thermocouples

TC Number

134	1	Potassium inlet
136	2	Potassium inlet
138	3	Potassium outlet
140	4	Potassium outlet
801	48	Potassium outlet
142	5	Sodium outlet
144	6	Sodium outlet
146	7	Sodium outlet
148	8	Sodium inlet
150	9	Sodium inlet
152	10	Sodium inlet

Wall Thermocouples

TC Number

Radius Within Tube  
Wall - Inches

Distance from Condenser  
Inlet - Inches\*

154	11	0.398	18-
156	12	0.449	18-
158	13	0.518	18-
160	14	0.601	18-
162	15	0.698	18-
164	16	0.398	18+
166	17	0.449	18+
168	18	0.518	18+
170	19	0.601	18+
172	20	0.698	18+

\*Wall thermocouples were butted together during this set of tests with 11-15 entering from the top and 16-20 from the bottom.

Column	Symbol	Identification
174	TKI	Inlet potassium temperature, °F
176	TKO	Outlet potassium temperature, °F
181-219,804	TKNC	Corrected temperature of thermocouple N, °F
221	TKIC	Corrected inlet potassium temperature, °F
223	TKOC	Corrected outlet potassium temperature, °F
226	TNAO	Outlet Sodium temperature, °F
229	TNAI	Inlet Sodium temperature, °F
230	DTNA	Sodium temperature increase, °F
235	WNA	Sodium Flow rate, lb/hr
237	TNAM	Sodium mean temperature, °F
238	CPNA	Sodium specific heat, Btu/lb-°F
240	QNA	Sodium heat gain, Btu/hr
243	DTQL	Temperature Difference, Test Section Shell - Ambient, °F
246	QC	Condenser load, Btu/hr
247	Q/AA	Average heat flux, Btu/hr-ft <sup>2</sup>
251	WK	Potassium flow rate, lb/hr
306	TWIT*	Inner wall temperature at top axial station, °F
317	Q/AT*	Heat flux at inner wall at top axial station, Btu/hr-ft <sup>2</sup>
319	TWOT*	Outer wall temperature at top axial station, °F
324	HCONT*	Condensing heat transfer coefficient at top axial station, Btu/hr-ft <sup>2</sup> °F
326	NUCT*	Nusselt's condensing ratio at top axial station, dimensionless
354	TWIB*	Inner wall temperature at bottom axial station, °F
365	Q/AB*	Heat flux at inner wall at bottom axial station, Btu/hr-ft <sup>2</sup>
367	TWOB*	Outer wall temperature at bottom axial station, °F
372	HCONB*	Condensing heat transfer coefficient at bottom axial station, Btu/hr-ft <sup>2</sup> °F
374	NUCB*	Nusselt's condensing ratio at bottom axial station, dimensionless
450	PSI HD	Inlet vapor velocity head, psi
451	PI*	Inlet potassium vapor pressure, lb/in <sup>2</sup>
452	PO*	Outlet potassium vapor pressure, lb/in <sup>2</sup>
453	DPC*	Condensing pressure drop

\*These values were also calculated, accounting for the thermocouple standardizations obtained in the vapor standardization runs. The values of the parameters utilizing the thermocouple standardization are indicated in the columns in which the notation for the above parameters are followed by a C, e.g., TWITC is the Inner Wall Temperature at top axial station utilizing the standardized correction factor, °F.

Column	Symbol	Identification
700	X B	Potassium Quality, Bottom Station, L/D = 29
495	WKL B	Local Potassium liquid flowrate at bottom station, lb/hr
701	X T	Potassium Quality, Top Station, L/D = 29
498	WKL T	Local Potassium liquid flowrate at top station, lb/hr
504	NREF T	Liquid film Reynolds number at top station, L/D = 29
507	NREF B	Liquid film Reynolds number at bottom station, L/D = 29

TABLE C2. 50 KW FACILITY POTASSIUM CONDENSING DATA TAKEN ON MAY 17, 1963

## CONDENSING DATA REDUCTION

	131	132	134	136	138	140
	DATE	TIME	TC1	TC2	TC3	TC4
1	5.1730+03	8.1000+02	1.1514+03	1.1500+03	1.1419+03	1.1472+03
2	5.1730+03	8.1000+02	1.1512+03	1.1500+03	1.1422+03	1.1470+03
3	5.1730+03	8.1000+02	1.1514+03	1.1503+03	1.1423+03	1.1473+03
4	5.1730+03	8.4500+02	1.1673+03	1.1661+03	1.1576+03	1.1626+03
5	5.1730+03	8.4500+02	1.1673+03	1.1662+03	1.1576+03	1.1626+03
6	5.1730+03	8.4500+02	1.1672+03	1.1661+03	1.1576+03	1.1626+03
7	5.1730+03	9.0700+02	1.1721+03	1.1710+03	1.1624+03	1.1674+03
8	5.1730+03	9.0700+02	1.1723+03	1.1715+03	1.1624+03	1.1674+03
9	5.1730+03	9.0700+02	1.1723+03	1.1714+03	1.1626+03	1.1676+03
10	5.1730+03	9.3500+02	1.1775+03	1.1767+03	1.1673+03	1.1723+03
11	5.1730+03	9.3500+02	1.1773+03	1.1762+03	1.1673+03	1.1721+03
12	5.1730+03	9.3500+02	1.1774+03	1.1766+03	1.1673+03	1.1723+03
13	5.1730+03	1.0300+03	1.1727+03	1.1715+03	1.1635+03	1.1684+03
14	5.1730+03	1.0300+03	1.1728+03	1.1718+03	1.1634+03	1.1683+03
15	5.1730+03	1.0300+03	1.1729+03	1.1718+03	1.1634+03	1.1682+03
16	5.1730+03	1.0450+03	1.1706+03	1.1694+03	1.1614+03	1.1662+03
17	5.1730+03	1.0450+03	1.1706+03	1.1697+03	1.1613+03	1.1662+03
18	5.1730+03	1.0450+03	1.1707+03	1.1695+03	1.1613+03	1.1662+03
19	5.1730+03	1.1150+03	1.1671+03	1.1661+03	1.1582+03	1.1629+03
20	5.1730+03	1.1150+03	1.1672+03	1.1662+03	1.1582+03	1.1630+03

# CONDENSING DATA REDUCTION

	131	132	134	136	138	140
	DATE	TIME	TC1	TC2	TC3	TC4
21	5.1730+03	1.1150+03	1.1668+03	1.1662+03	1.1583+03	1.1629+03
22	5.1730+03	1.1400+03	1.1675+03	1.1665+03	1.1583+03	1.1630+03
23	5.1730+03	1.1400+03	1.1674+03	1.1662+03	1.1583+03	1.1631+03
24	5.1730+03	1.1400+03	1.1672+03	1.1661+03	1.1583+03	1.1630+03
25	5.1730+03	1.2100+03	1.1718+03	1.1708+03	1.1626+03	1.1673+03
26	5.1730+03	1.2100+03	1.1718+03	1.1706+03	1.1626+03	1.1673+03
27	5.1730+03	1.2100+03	1.1718+03	1.1708+03	1.1626+03	1.1674+03
28	5.1730+03	1.3110+03	1.1753+03	1.1748+03	1.1664+03	1.1710+03
29	5.1730+03	1.3110+03	1.1755+03	1.1751+03	1.1664+03	1.1710+03
30	5.1730+03	1.3110+03	1.1755+03	1.1753+03	1.1662+03	1.1710+03
31	5.1730+03	1.4110+03	1.1782+03	1.1782+03	1.1693+03	1.1740+03
32	5.1730+03	1.4110+03	1.1785+03	1.1783+03	1.1693+03	1.1740+03
33	5.1730+03	1.4110+03	1.1784+03	1.1783+03	1.1693+03	1.1740+03



# CONDENSING DATA REDUCTION

	142	144	146	148	150	152
	TC5	TC6	TC7	TC8	TC9	TC10
1	1.1344+03	1.1302+03	1.1301+03	1.0956+03	1.0974+03	1.0957+03
2	1.1344+03	1.1305+03	1.1301+03	1.0956+03	1.0975+03	1.0957+03
3	1.1346+03	1.1306+03	1.1301+03	1.0958+03	1.0976+03	1.0958+03
4	1.1481+03	1.1439+03	1.1439+03	1.1148+03	1.1167+03	1.1150+03
5	1.1481+03	1.1440+03	1.1439+03	1.1147+03	1.1167+03	1.1150+03
6	1.1483+03	1.1441+03	1.1441+03	1.1148+03	1.1167+03	1.1151+03
7	1.1509+03	1.1467+03	1.1466+03	1.1234+03	1.1252+03	1.1233+03
8	1.1510+03	1.1468+03	1.1468+03	1.1233+03	1.1252+03	1.1234+03
9	1.1510+03	1.1469+03	1.1468+03	1.1234+03	1.1252+03	1.1235+03
10	1.1547+03	1.1507+03	1.1509+03	1.1313+03	1.1329+03	1.1311+03
11	1.1547+03	1.1507+03	1.1510+03	1.1313+03	1.1329+03	1.1311+03
12	1.1547+03	1.1507+03	1.1509+03	1.1313+03	1.1331+03	1.1311+03
13	1.1489+03	1.1450+03	1.1452+03	1.1244+03	1.1261+03	1.1242+03
14	1.1489+03	1.1449+03	1.1450+03	1.1244+03	1.1260+03	1.1242+03
15	1.1488+03	1.1448+03	1.1452+03	1.1243+03	1.1259+03	1.1242+03
16	1.1465+03	1.1426+03	1.1428+03	1.1221+03	1.1238+03	1.1218+03
17	1.1465+03	1.1426+03	1.1428+03	1.1220+03	1.1236+03	1.1217+03
18	1.1465+03	1.1425+03	1.1428+03	1.1219+03	1.1235+03	1.1217+03
19	1.1419+03	1.1380+03	1.1381+03	1.1203+03	1.1219+03	1.1200+03
20	1.1420+03	1.1380+03	1.1381+03	1.1203+03	1.1219+03	1.1199+03

# CONDENSING DATA REDUCTION

	142	144	146	148	150	152
	TC5	TC6	TC7	TC8	TC9	TC10
21	1.1420+03	1.1381+03	1.1381+03	1.1203+03	1.1219+03	1.1200+03
22	1.1414+03	1.1376+03	1.1377+03	1.1222+03	1.1239+03	1.1219+03
23	1.1413+03	1.1375+03	1.1377+03	1.1222+03	1.1239+03	1.1219+03
24	1.1414+03	1.1376+03	1.1375+03	1.1222+03	1.1239+03	1.1220+03
25	1.1461+03	1.1423+03	1.1424+03	1.1280+03	1.1297+03	1.1276+03
26	1.1462+03	1.1423+03	1.1424+03	1.1281+03	1.1297+03	1.1277+03
27	1.1461+03	1.1424+03	1.1425+03	1.1282+03	1.1297+03	1.1278+03
28	1.1475+03	1.1436+03	1.1436+03	1.1286+03	1.1303+03	1.1280+03
29	1.1475+03	1.1436+03	1.1436+03	1.1286+03	1.1302+03	1.1280+03
30	1.1475+03	1.1436+03	1.1436+03	1.1286+03	1.1302+03	1.1279+03
31	1.1496+03	1.1458+03	1.1459+03	1.1306+03	1.1323+03	1.1300+03
32	1.1497+03	1.1458+03	1.1458+03	1.1307+03	1.1323+03	1.1301+03
33	1.1497+03	1.1458+03	1.1459+03	1.1307+03	1.1324+03	1.1301+03

# CONDENSING DATA REDUCTION

	154	156	158	160	162	164
	TC11	TC12	TC13	TC14	TC15	TC16
1	1.1501+03	1.1429+03	1.1435+03	1.1378+03	1.1336+03	1.1462+03
2	1.1501+03	1.1430+03	1.1436+03	1.1381+03	1.1336+03	1.1462+03
3	1.1503+03	1.1431+03	1.1437+03	1.1381+03	1.1339+03	1.1464+03
4	1.1662+03	1.1584+03	1.1588+03	1.1533+03	1.1487+03	1.1625+03
5	1.1663+03	1.1583+03	1.1588+03	1.1533+03	1.1489+03	1.1625+03
6	1.1664+03	1.1585+03	1.1589+03	1.1534+03	1.1488+03	1.1626+03
7	1.1712+03	1.1631+03	1.1635+03	1.1580+03	1.1534+03	1.1676+03
8	1.1712+03	1.1631+03	1.1635+03	1.1581+03	1.1533+03	1.1677+03
9	1.1714+03	1.1631+03	1.1634+03	1.1581+03	1.1534+03	1.1677+03
10	1.1764+03	1.1680+03	1.1682+03	1.1629+03	1.1583+03	1.1727+03
11	1.1763+03	1.1681+03	1.1682+03	1.1631+03	1.1583+03	1.1728+03
12	1.1764+03	1.1680+03	1.1681+03	1.1630+03	1.1582+03	1.1728+03
13	1.1712+03	1.1629+03	1.1629+03	1.1576+03	1.1526+03	1.1679+03
14	1.1712+03	1.1626+03	1.1627+03	1.1574+03	1.1525+03	1.1677+03
15	1.1711+03	1.1626+03	1.1627+03	1.1574+03	1.1525+03	1.1677+03
16	1.1690+03	1.1603+03	1.1605+03	1.1551+03	1.1502+03	1.1656+03
17	1.1690+03	1.1603+03	1.1604+03	1.1551+03	1.1502+03	1.1656+03
18	1.1689+03	1.1603+03	1.1603+03	1.1551+03	1.1501+03	1.1655+03
19	1.1656+03	1.1568+03	1.1569+03	1.1513+03	1.1463+03	1.1621+03
20	1.1656+03	1.1567+03	1.1568+03	1.1513+03	1.1463+03	1.1621+03

# CONDENSING DATA REDUCTION

	154	156	158	160	162	164
	TC11	TC12	TC13	TC14	TC15	TC16
21	1.1655+03	1.1568+03	1.1568+03	1.1513+03	1.1462+03	1.1621+03
22	1.1657+03	1.1568+03	1.1568+03	1.1518+03	1.1464+03	1.1623+03
23	1.1657+03	1.1570+03	1.1568+03	1.1516+03	1.1466+03	1.1624+03
24	1.1656+03	1.1570+03	1.1568+03	1.1518+03	1.1465+03	1.1624+03
25	1.1705+03	1.1618+03	1.1615+03	1.1568+03	1.1513+03	1.1669+03
26	1.1705+03	1.1618+03	1.1616+03	1.1568+03	1.1514+03	1.1669+03
27	1.1706+03	1.1619+03	1.1616+03	1.1568+03	1.1514+03	1.1670+03
28	1.1729+03	1.1635+03	1.1635+03	1.1585+03	1.1530+03	1.1697+03
29	1.1728+03	1.1635+03	1.1634+03	1.1585+03	1.1530+03	1.1697+03
30	1.1728+03	1.1635+03	1.1634+03	1.1585+03	1.1529+03	1.1696+03
31	1.1754+03	1.1658+03	1.1656+03	1.1607+03	1.1555+03	1.1725+03
32	1.1753+03	1.1659+03	1.1659+03	1.1607+03	1.1552+03	1.1723+03
33	1.1753+03	1.1659+03	1.1659+03	1.1607+03	1.1553+03	1.1723+03

# CONDENSING DATA REDUCTION

	166	168	170	172	174	801
	TC17	TC18	TC19	TC20	TKI	TC48
1	1.1394+03	1.1414+03	1.1335+03	1.1327+03	1.1507+03	1.1467+03
2	1.1393+03	1.1415+03	1.1336+03	1.1327+03	1.1506+03	1.1467+03
3	1.1396+03	1.1417+03	1.1337+03	1.1329+03	1.1508+03	1.1467+03
4	1.1551+03	1.1573+03	1.1504+03	1.1480+03	1.1667+03	1.1623+03
5	1.1551+03	1.1573+03	1.1505+03	1.1481+03	1.1667+03	1.1623+03
6	1.1553+03	1.1574+03	1.1506+03	1.1481+03	1.1667+03	1.1624+03
7	1.1599+03	1.1620+03	1.1553+03	1.1526+03	1.1716+03	1.1672+03
8	1.1600+03	1.1620+03	1.1554+03	1.1526+03	1.1719+03	1.1672+03
9	1.1600+03	1.1620+03	1.1554+03	1.1526+03	1.1718+03	1.1673+03
10	1.1650+03	1.1668+03	1.1604+03	1.1575+03	1.1771+03	1.1721+03
11	1.1650+03	1.1669+03	1.1604+03	1.1576+03	1.1767+03	1.1719+03
12	1.1648+03	1.1669+03	1.1603+03	1.1576+03	1.1770+03	1.1721+03
13	1.1597+03	1.1616+03	1.1549+03	1.1518+03	1.1721+03	1.1681+03
14	1.1595+03	1.1615+03	1.1547+03	1.1518+03	1.1723+03	1.1681+03
15	1.1595+03	1.1615+03	1.1547+03	1.1518+03	1.1724+03	1.1680+03
16	1.1574+03	1.1593+03	1.1525+03	1.1495+03	1.1700+03	1.1660+03
17	1.1573+03	1.1593+03	1.1524+03	1.1496+03	1.1701+03	1.1660+03
18	1.1573+03	1.1592+03	1.1525+03	1.1494+03	1.1701+03	1.1660+03
19	1.1538+03	1.1557+03	1.1489+03	1.1458+03	1.1666+03	1.1628+03
20	1.1537+03	1.1557+03	1.1489+03	1.1459+03	1.1667+03	1.1629+03

# CONDENSING DATA REDUCTION

	166	168	170	172	174	801
	TC17	TC18	TC19	TC20	TKI	TC48
21	1.1538+03	1.1556+03	1.1490+03	1.1457+03	1.1665+03	1.1629+03
22	1.1538+03	1.1557+03	1.1492+03	1.1459+03	1.1670+03	1.1629+03
23	1.1539+03	1.1557+03	1.1492+03	1.1460+03	1.1668+03	1.1629+03
24	1.1539+03	1.1557+03	1.1492+03	1.1460+03	1.1667+03	1.1630+03
25	1.1586+03	1.1604+03	1.1540+03	1.1507+03	1.1713+03	1.1672+03
26	1.1585+03	1.1603+03	1.1540+03	1.1508+03	1.1712+03	1.1672+03
27	1.1586+03	1.1604+03	1.1541+03	1.1508+03	1.1713+03	1.1672+03
28	1.1609+03	1.1627+03	1.1561+03	1.1526+03	1.1750+03	1.1709+03
29	1.1608+03	1.1626+03	1.1561+03	1.1526+03	1.1753+03	1.1709+03
30	1.1607+03	1.1626+03	1.1560+03	1.1524+03	1.1754+03	1.1709+03
31	1.1633+03	1.1651+03	1.1585+03	1.1551+03	1.1782+03	1.1739+03
32	1.1634+03	1.1653+03	1.1585+03	1.1550+03	1.1784+03	1.1739+03
33	1.1634+03	1.1653+03	1.1585+03	1.1551+03	1.1783+03	1.1739+03

# CONDENSING DATA REDUCTION

	176	181	183	185	187	189
	TK0	TC1C	TC2C	TC3C	TC4C	TC5C
1	1.1453+03	1.1565+03	1.1564+03	1.1601+03	1.1620+03	1.1367+03
2	1.1453+03	1.1563+03	1.1564+03	1.1604+03	1.1619+03	1.1367+03
3	1.1455+03	1.1565+03	1.1567+03	1.1605+03	1.1622+03	1.1369+03
4	1.1608+03	1.1727+03	1.1728+03	1.1761+03	1.1777+03	1.1504+03
5	1.1608+03	1.1727+03	1.1728+03	1.1762+03	1.1777+03	1.1504+03
6	1.1609+03	1.1727+03	1.1728+03	1.1762+03	1.1778+03	1.1506+03
7	1.1657+03	1.1777+03	1.1778+03	1.1811+03	1.1825+03	1.1532+03
8	1.1657+03	1.1779+03	1.1783+03	1.1811+03	1.1826+03	1.1533+03
9	1.1658+03	1.1779+03	1.1782+03	1.1812+03	1.1827+03	1.1533+03
10	1.1705+03	1.1832+03	1.1836+03	1.1860+03	1.1874+03	1.1570+03
11	1.1704+03	1.1829+03	1.1831+03	1.1860+03	1.1872+03	1.1570+03
12	1.1705+03	1.1831+03	1.1835+03	1.1860+03	1.1873+03	1.1570+03
13	1.1667+03	1.1783+03	1.1784+03	1.1822+03	1.1835+03	1.1512+03
14	1.1666+03	1.1783+03	1.1786+03	1.1821+03	1.1834+03	1.1512+03
15	1.1665+03	1.1784+03	1.1787+03	1.1821+03	1.1834+03	1.1511+03
16	1.1646+03	1.1761+03	1.1762+03	1.1801+03	1.1814+03	1.1488+03
17	1.1645+03	1.1761+03	1.1764+03	1.1800+03	1.1814+03	1.1488+03
18	1.1645+03	1.1762+03	1.1763+03	1.1800+03	1.1813+03	1.1488+03
19	1.1613+03	1.1726+03	1.1728+03	1.1767+03	1.1781+03	1.1442+03
20	1.1614+03	1.1727+03	1.1729+03	1.1768+03	1.1782+03	1.1443+03

# CONDENSING DATA REDUCTION

	176	181	183	185	187	189
	TKO	TC1C	TC2C	TC3C	TC4C	TC5C
21	1.1614+03	1.1723+03	1.1729+03	1.1769+03	1.1781+03	1.1443+03
22	1.1614+03	1.1730+03	1.1732+03	1.1769+03	1.1782+03	1.1437+03
23	1.1614+03	1.1728+03	1.1728+03	1.1769+03	1.1782+03	1.1436+03
24	1.1614+03	1.1727+03	1.1728+03	1.1769+03	1.1782+03	1.1437+03
25	1.1657+03	1.1773+03	1.1776+03	1.1813+03	1.1824+03	1.1484+03
26	1.1657+03	1.1773+03	1.1774+03	1.1813+03	1.1824+03	1.1485+03
27	1.1657+03	1.1774+03	1.1776+03	1.1813+03	1.1825+03	1.1484+03
28	1.1695+03	1.1809+03	1.1817+03	1.1851+03	1.1861+03	1.1498+03
29	1.1694+03	1.1811+03	1.1820+03	1.1851+03	1.1861+03	1.1498+03
30	1.1694+03	1.1811+03	1.1822+03	1.1850+03	1.1861+03	1.1498+03
31	1.1724+03	1.1839+03	1.1852+03	1.1880+03	1.1890+03	1.1519+03
32	1.1724+03	1.1841+03	1.1853+03	1.1880+03	1.1890+03	1.1520+03
33	1.1724+03	1.1841+03	1.1853+03	1.1880+03	1.1890+03	1.1520+03



# CONDENSING DATA REDUCTION

	191	193	195	197	199	201
	TC6C	TC7C	TC8C	TC9C	TC10C	TC11C
1	1.1333+03	1.1330+03	1.0960+03	1.0979+03	1.0988+03	1.1501+03
2	1.1336+03	1.1330+03	1.0960+03	1.0980+03	1.0988+03	1.1501+03
3	1.1337+03	1.1330+03	1.0962+03	1.0981+03	1.0990+03	1.1503+03
4	1.1471+03	1.1468+03	1.1152+03	1.1172+03	1.1181+03	1.1662+03
5	1.1471+03	1.1468+03	1.1152+03	1.1172+03	1.1182+03	1.1663+03
6	1.1472+03	1.1470+03	1.1152+03	1.1172+03	1.1182+03	1.1664+03
7	1.1498+03	1.1495+03	1.1238+03	1.1256+03	1.1265+03	1.1712+03
8	1.1499+03	1.1497+03	1.1238+03	1.1257+03	1.1265+03	1.1712+03
9	1.1500+03	1.1497+03	1.1238+03	1.1256+03	1.1266+03	1.1714+03
10	1.1539+03	1.1538+03	1.1317+03	1.1334+03	1.1343+03	1.1764+03
11	1.1539+03	1.1539+03	1.1317+03	1.1334+03	1.1343+03	1.1763+03
12	1.1539+03	1.1538+03	1.1317+03	1.1335+03	1.1343+03	1.1764+03
13	1.1481+03	1.1481+03	1.1249+03	1.1266+03	1.1274+03	1.1712+03
14	1.1480+03	1.1479+03	1.1248+03	1.1265+03	1.1273+03	1.1712+03
15	1.1479+03	1.1481+03	1.1247+03	1.1264+03	1.1273+03	1.1711+03
16	1.1458+03	1.1457+03	1.1225+03	1.1242+03	1.1250+03	1.1690+03
17	1.1457+03	1.1457+03	1.1224+03	1.1241+03	1.1249+03	1.1690+03
18	1.1457+03	1.1457+03	1.1223+03	1.1240+03	1.1248+03	1.1689+03
19	1.1411+03	1.1410+03	1.1208+03	1.1224+03	1.1232+03	1.1656+03
20	1.1411+03	1.1410+03	1.1207+03	1.1224+03	1.1231+03	1.1656+03

# CONDENSING DATA REDUCTION

	191	193	195	197	199	201
	TC6C	TC7C	TC8C	TC9C	TC10C	TC11C
21	1.1412+03	1.1410+03	1.1207+03	1.1223+03	1.1231+03	1.1655+03
22	1.1407+03	1.1406+03	1.1227+03	1.1243+03	1.1251+03	1.1657+03
23	1.1407+03	1.1406+03	1.1226+03	1.1243+03	1.1251+03	1.1657+03
24	1.1407+03	1.1405+03	1.1227+03	1.1244+03	1.1252+03	1.1656+03
25	1.1454+03	1.1453+03	1.1284+03	1.1301+03	1.1308+03	1.1705+03
26	1.1455+03	1.1453+03	1.1285+03	1.1302+03	1.1309+03	1.1705+03
27	1.1455+03	1.1454+03	1.1286+03	1.1302+03	1.1309+03	1.1706+03
28	1.1467+03	1.1465+03	1.1291+03	1.1308+03	1.1312+03	1.1729+03
29	1.1467+03	1.1465+03	1.1291+03	1.1306+03	1.1311+03	1.1728+03
30	1.1467+03	1.1465+03	1.1290+03	1.1306+03	1.1311+03	1.1728+03
31	1.1489+03	1.1488+03	1.1310+03	1.1328+03	1.1332+03	1.1754+03
32	1.1489+03	1.1487+03	1.1311+03	1.1328+03	1.1332+03	1.1753+03
33	1.1489+03	1.1488+03	1.1311+03	1.1329+03	1.1333+03	1.1753+03

# CONDENSING DATA REDUCTION

	203	205	207	209	211	213
	TC12C	TC13C	TC14C	TC15C	TC16C	TC17C
1	1.1439+03	1.1441+03	1.1387+03	1.1369+03	1.1496+03	1.1436+03
2	1.1440+03	1.1443+03	1.1391+03	1.1370+03	1.1496+03	1.1436+03
3	1.1442+03	1.1443+03	1.1390+03	1.1372+03	1.1498+03	1.1438+03
4	1.1592+03	1.1593+03	1.1542+03	1.1522+03	1.1659+03	1.1596+03
5	1.1591+03	1.1592+03	1.1542+03	1.1523+03	1.1659+03	1.1596+03
6	1.1594+03	1.1593+03	1.1542+03	1.1523+03	1.1660+03	1.1598+03
7	1.1639+03	1.1639+03	1.1588+03	1.1569+03	1.1710+03	1.1645+03
8	1.1639+03	1.1638+03	1.1590+03	1.1568+03	1.1711+03	1.1645+03
9	1.1639+03	1.1638+03	1.1590+03	1.1569+03	1.1711+03	1.1645+03
10	1.1688+03	1.1685+03	1.1638+03	1.1619+03	1.1761+03	1.1696+03
11	1.1689+03	1.1685+03	1.1639+03	1.1619+03	1.1762+03	1.1696+03
12	1.1688+03	1.1685+03	1.1638+03	1.1618+03	1.1762+03	1.1694+03
13	1.1636+03	1.1633+03	1.1584+03	1.1561+03	1.1713+03	1.1642+03
14	1.1634+03	1.1631+03	1.1583+03	1.1560+03	1.1711+03	1.1641+03
15	1.1634+03	1.1631+03	1.1583+03	1.1560+03	1.1711+03	1.1640+03
16	1.1612+03	1.1609+03	1.1560+03	1.1536+03	1.1690+03	1.1619+03
17	1.1612+03	1.1608+03	1.1559+03	1.1536+03	1.1690+03	1.1618+03
18	1.1611+03	1.1607+03	1.1559+03	1.1536+03	1.1689+03	1.1618+03
19	1.1577+03	1.1573+03	1.1522+03	1.1497+03	1.1655+03	1.1582+03
20	1.1576+03	1.1572+03	1.1522+03	1.1498+03	1.1655+03	1.1581+03

# CONDENSING DATA REDUCTION

	203	205	207	209	211	213
	TC12C	TC13C	TC14C	TC15C	TC16C	TC17C
21	1.1576+03	1.1572+03	1.1522+03	1.1496+03	1.1655+03	1.1583+03
22	1.1577+03	1.1573+03	1.1526+03	1.1499+03	1.1657+03	1.1583+03
23	1.1579+03	1.1573+03	1.1525+03	1.1500+03	1.1658+03	1.1584+03
24	1.1579+03	1.1573+03	1.1527+03	1.1500+03	1.1658+03	1.1584+03
25	1.1626+03	1.1619+03	1.1576+03	1.1548+03	1.1703+03	1.1631+03
26	1.1626+03	1.1620+03	1.1576+03	1.1549+03	1.1703+03	1.1631+03
27	1.1627+03	1.1620+03	1.1577+03	1.1549+03	1.1704+03	1.1632+03
28	1.1643+03	1.1638+03	1.1594+03	1.1565+03	1.1731+03	1.1654+03
29	1.1643+03	1.1638+03	1.1593+03	1.1565+03	1.1731+03	1.1653+03
30	1.1642+03	1.1637+03	1.1593+03	1.1564+03	1.1730+03	1.1653+03
31	1.1666+03	1.1659+03	1.1615+03	1.1590+03	1.1759+03	1.1679+03
32	1.1667+03	1.1662+03	1.1615+03	1.1587+03	1.1757+03	1.1680+03
33	1.1667+03	1.1663+03	1.1616+03	1.1589+03	1.1757+03	1.1680+03

# CONDENSING DATA REDUCTION

	215	217	219	221	804	223
	TC18C	TC19C	TC20C	TKIC	TC48C	TKOC
1	1.1438+03	1.1380+03	1.1358+03	1.1564+03	1.1605+03	1.1609+03
2	1.1439+03	1.1381+03	1.1358+03	1.1564+03	1.1605+03	1.1609+03
3	1.1441+03	1.1382+03	1.1360+03	1.1566+03	1.1605+03	1.1611+03
4	1.1597+03	1.1551+03	1.1511+03	1.1727+03	1.1764+03	1.1768+03
5	1.1597+03	1.1551+03	1.1512+03	1.1728+03	1.1765+03	1.1768+03
6	1.1598+03	1.1552+03	1.1513+03	1.1727+03	1.1766+03	1.1769+03
7	1.1643+03	1.1600+03	1.1558+03	1.1777+03	1.1814+03	1.1817+03
8	1.1644+03	1.1601+03	1.1558+03	1.1781+03	1.1814+03	1.1817+03
9	1.1644+03	1.1601+03	1.1558+03	1.1780+03	1.1815+03	1.1818+03
10	1.1692+03	1.1652+03	1.1607+03	1.1834+03	1.1862+03	1.1865+03
11	1.1693+03	1.1652+03	1.1609+03	1.1830+03	1.1861+03	1.1864+03
12	1.1693+03	1.1651+03	1.1608+03	1.1833+03	1.1862+03	1.1865+03
13	1.1640+03	1.1596+03	1.1550+03	1.1783+03	1.1823+03	1.1827+03
14	1.1639+03	1.1595+03	1.1549+03	1.1785+03	1.1823+03	1.1826+03
15	1.1638+03	1.1595+03	1.1549+03	1.1785+03	1.1822+03	1.1825+03
16	1.1617+03	1.1572+03	1.1527+03	1.1761+03	1.1802+03	1.1806+03
17	1.1617+03	1.1571+03	1.1527+03	1.1763+03	1.1802+03	1.1805+03
18	1.1616+03	1.1572+03	1.1526+03	1.1762+03	1.1802+03	1.1805+03
19	1.1581+03	1.1536+03	1.1489+03	1.1727+03	1.1770+03	1.1773+03
20	1.1581+03	1.1535+03	1.1490+03	1.1728+03	1.1771+03	1.1774+03

# CONDENSING DATA REDUCTION

	215	217	219	221	804	223
	TC18C	TC19C	TC20C	TK1C	TC48C	TKOC
21	1.1580+03	1.1536+03	1.1488+03	1.1726+03	1.1770+03	1.1773+03
22	1.1581+03	1.1538+03	1.1490+03	1.1731+03	1.1771+03	1.1774+03
23	1.1581+03	1.1539+03	1.1492+03	1.1728+03	1.1771+03	1.1774+03
24	1.1581+03	1.1538+03	1.1491+03	1.1727+03	1.1772+03	1.1774+03
25	1.1628+03	1.1587+03	1.1539+03	1.1775+03	1.1814+03	1.1817+03
26	1.1627+03	1.1587+03	1.1540+03	1.1774+03	1.1814+03	1.1817+03
27	1.1628+03	1.1588+03	1.1540+03	1.1775+03	1.1814+03	1.1817+03
28	1.1651+03	1.1608+03	1.1557+03	1.1813+03	1.1851+03	1.1855+03
29	1.1650+03	1.1608+03	1.1557+03	1.1816+03	1.1851+03	1.1854+03
30	1.1649+03	1.1607+03	1.1556+03	1.1817+03	1.1851+03	1.1854+03
31	1.1675+03	1.1633+03	1.1583+03	1.1845+03	1.1881+03	1.1884+03
32	1.1677+03	1.1632+03	1.1582+03	1.1847+03	1.1881+03	1.1884+03
33	1.1676+03	1.1633+03	1.1583+03	1.1847+03	1.1881+03	1.1884+03

# CONDENSING DATA REDUCTION

	226	229	230	235	237	238
	TNAD	TNAI	DTNA	WNA	TNAM	CPNA
1	1.1343+03	1.0976+03	3.6752+01	1.8080+03	1.1160+03	3.0000-01
2	1.1344+03	1.0976+03	3.6851+01	1.8080+03	1.1160+03	3.0000-01
3	1.1345+03	1.0978+03	3.6782+01	1.8080+03	1.1162+03	3.0000-01
4	1.1481+03	1.1168+03	3.1261+01	2.2433+03	1.1325+03	3.0000-01
5	1.1481+03	1.1168+03	3.1261+01	2.2433+03	1.1325+03	3.0000-01
6	1.1483+03	1.1169+03	3.1402+01	2.2433+03	1.1326+03	3.0000-01
7	1.1508+03	1.1253+03	2.5515+01	2.7965+03	1.1381+03	3.0000-01
8	1.1510+03	1.1253+03	2.5657+01	2.7965+03	1.1382+03	3.0000-01
9	1.1510+03	1.1254+03	2.5614+01	2.7965+03	1.1382+03	3.0000-01
10	1.1549+03	1.1331+03	2.1759+01	3.3138+03	1.1440+03	3.0000-01
11	1.1549+03	1.1331+03	2.1830+01	3.3138+03	1.1440+03	3.0000-01
12	1.1549+03	1.1332+03	2.1717+01	3.3138+03	1.1440+03	3.0000-01
13	1.1491+03	1.1263+03	2.2871+01	3.3532+03	1.1377+03	3.0000-01
14	1.1490+03	1.1262+03	2.2829+01	3.3532+03	1.1376+03	3.0000-01
15	1.1490+03	1.1261+03	2.2928+01	3.3532+03	1.1376+03	3.0000-01
16	1.1467+03	1.1239+03	2.2829+01	3.3522+03	1.1353+03	3.0000-01
17	1.1467+03	1.1238+03	2.2928+01	3.3522+03	1.1353+03	3.0000-01
18	1.1467+03	1.1237+03	2.3013+01	3.3522+03	1.1352+03	3.0000-01
19	1.1421+03	1.1221+03	1.9990+01	3.8439+03	1.1321+03	3.0000-01
20	1.1422+03	1.1221+03	2.0103+01	3.8439+03	1.1321+03	3.0000-01

# CONDENSING DATA REDUCTION

	226	229	230	235	237	238
	TNAO	TNAI	DTNA	WNA	TNAM	CPNA
21	1.1422+03	1.1220+03	2.0131+01	3.8439+03	1.1321+03	3.0000-01
22	1.1417+03	1.1240+03	1.7645+01	4.3843+03	1.1328+03	3.0000-01
23	1.1416+03	1.1240+03	1.7631+01	4.3843+03	1.1328+03	3.0000-01
24	1.1416+03	1.1241+03	1.7518+01	4.3843+03	1.1328+03	3.0000-01
25	1.1464+03	1.1298+03	1.6586+01	4.5712+03	1.1381+03	3.0000-01
26	1.1464+03	1.1299+03	1.6572+01	4.5712+03	1.1381+03	3.0000-01
27	1.1464+03	1.1299+03	1.6515+01	4.5712+03	1.1382+03	3.0000-01
28	1.1477+03	1.1303+03	1.7349+01	4.5635+03	1.1390+03	3.0000-01
29	1.1477+03	1.1303+03	1.7405+01	4.5635+03	1.1390+03	3.0000-01
30	1.1477+03	1.1302+03	1.7433+01	4.5635+03	1.1389+03	3.0000-01
31	1.1499+03	1.1323+03	1.7546+01	4.5789+03	1.1411+03	3.0000-01
32	1.1499+03	1.1324+03	1.7490+01	4.5789+03	1.1411+03	3.0000-01
33	1.1499+03	1.1324+03	1.7462+01	4.5789+03	1.1412+03	3.0000-01



# CONDENSING DATA REDUCTION

	240	243	246	247	251	306
	QNA	DTQL	QC	Q/AA	WK	TWI T
1	1.9934+04	1.0392+03	2.2402+04	4.5634+04	2.5661+01	1.1553+03
2	1.9988+04	1.0392+03	2.2456+04	4.5744+04	2.5723+01	1.1553+03
3	1.9950+04	1.0394+03	2.2419+04	4.5668+04	2.5681+01	1.1555+03
4	2.1039+04	1.0557+03	2.3570+04	4.8014+04	2.7070+01	1.1716+03
5	2.1039+04	1.0557+03	2.3570+04	4.8014+04	2.7070+01	1.1715+03
6	2.1134+04	1.0558+03	2.3665+04	4.8208+04	2.7180+01	1.1717+03
7	2.1406+04	1.0613+03	2.3959+04	4.8806+04	2.7539+01	1.1766+03
8	2.1525+04	1.0614+03	2.4078+04	4.9048+04	2.7676+01	1.1766+03
9	2.1489+04	1.0614+03	2.4042+04	4.8976+04	2.7636+01	1.1766+03
10	2.1632+04	1.0672+03	2.4208+04	4.9313+04	2.7848+01	1.1817+03
11	2.1702+04	1.0672+03	2.4278+04	4.9456+04	2.7929+01	1.1816+03
12	2.1590+04	1.0672+03	2.4166+04	4.9227+04	2.7800+01	1.1817+03
13	2.3008+04	1.0609+03	2.5559+04	5.2066+04	2.9382+01	1.1768+03
14	2.2965+04	1.0608+03	2.5516+04	5.1978+04	2.9333+01	1.1767+03
15	2.3065+04	1.0608+03	2.5616+04	5.2181+04	2.9447+01	1.1766+03
16	2.2958+04	1.0585+03	2.5500+04	5.1946+04	2.9304+01	1.1745+03
17	2.3058+04	1.0585+03	2.5600+04	5.2148+04	2.9419+01	1.1744+03
18	2.3143+04	1.0584+03	2.5685+04	5.2321+04	2.9516+01	1.1744+03
19	2.3052+04	1.0553+03	2.5582+04	5.2111+04	2.9381+01	1.1713+03
20	2.3182+04	1.0553+03	2.5712+04	5.2377+04	2.9532+01	1.1711+03

# CONDENSING DATA REDUCTION

	240	243	246	247	251	306
	QNA	DTQL	QC	Q/AA	WK	TWI T
21	2.3215+04	1.0553+03	2.5744+04	5.2443+04	2.9569+01	1.1712+03
22	2.3209+04	1.0561+03	2.5741+04	5.2436+04	2.9566+01	1.1712+03
23	2.3190+04	1.0560+03	2.5722+04	5.2398+04	2.9544+01	1.1713+03
24	2.3041+04	1.0561+03	2.5574+04	5.2096+04	2.9373+01	1.1712+03
25	2.2745+04	1.0613+03	2.5298+04	5.1534+04	2.9078+01	1.1760+03
26	2.2726+04	1.0614+03	2.5279+04	5.1495+04	2.9056+01	1.1760+03
27	2.2649+04	1.0614+03	2.5202+04	5.1338+04	2.8967+01	1.1761+03
28	2.3751+04	1.0622+03	2.6308+04	5.3591+04	3.0257+01	1.1784+03
29	2.3829+04	1.0622+03	2.6385+04	5.3748+04	3.0346+01	1.1783+03
30	2.3867+04	1.0622+03	2.6424+04	5.3827+04	3.0391+01	1.1783+03
31	2.4103+04	1.0643+03	2.6667+04	5.4324+04	3.0686+01	1.1807+03
32	2.4025+04	1.0643+03	2.6590+04	5.4166+04	3.0597+01	1.1810+03
33	2.3987+04	1.0644+03	2.6551+04	5.4087+04	3.0552+01	1.1809+03

# CONDENSING DATA REDUCTION

	317	319	324	326	354	365
	Q/A T	TWO T	HCON T	NUC T	TWI B	Q/A B
1	3.8589+04	1.1282+03	-5.2352+03	-1.4629-02	1.1505+03	3.3164+04
2	3.8179+04	1.1285+03	-5.1893+03	-1.4501-02	1.1505+03	3.3125+04
3	3.8255+04	1.1286+03	-5.2231+03	-1.4596-02	1.1507+03	3.3216+04
4	4.0651+04	1.1431+03	-5.1984+03	-1.4549-02	1.1668+03	3.4192+04
5	4.0374+04	1.1432+03	-5.2474+03	-1.4687-02	1.1668+03	3.3972+04
6	4.0871+04	1.1431+03	-5.1417+03	-1.4391-02	1.1669+03	3.4156+04
7	4.1480+04	1.1476+03	-5.2034+03	-1.4571-02	1.1720+03	3.5109+04
8	4.1438+04	1.1476+03	-5.3237+03	-1.4908-02	1.1720+03	3.5153+04
9	4.1461+04	1.1476+03	-5.3230+03	-1.4906-02	1.1720+03	3.5150+04
10	4.1972+04	1.1523+03	-5.3518+03	-1.4994-02	1.1771+03	3.5489+04
11	4.1634+04	1.1525+03	-5.2027+03	-1.4576-02	1.1771+03	3.5310+04
12	4.1972+04	1.1523+03	-5.3180+03	-1.4899-02	1.1770+03	3.5299+04
13	4.3293+04	1.1465+03	-5.8470+03	-1.6374-02	1.1725+03	3.7438+04
14	4.3311+04	1.1464+03	-5.9791+03	-1.6744-02	1.1723+03	3.7262+04
15	4.3057+04	1.1464+03	-6.0508+03	-1.6945-02	1.1722+03	3.7126+04
16	4.3505+04	1.1440+03	-6.0261+03	-1.6872-02	1.1702+03	3.7579+04
17	4.3462+04	1.1440+03	-6.1089+03	-1.7104-02	1.1701+03	3.7397+04
18	4.3505+04	1.1440+03	-6.1121+03	-1.7113-02	1.1701+03	3.7491+04
19	4.4675+04	1.1400+03	-6.1123+03	-1.7108-02	1.1668+03	3.8037+04
20	4.4439+04	1.1400+03	-6.2774+03	-1.7570-02	1.1667+03	3.7719+04

# CONDENSING DATA REDUCTION

	317	319	324	326	354	365
	Q/A T	TWO T	HCON T	NUC T	TWI B	Q/A B
21	4.4583+04	1.1399+03	-6.1953+03	-1.7340-02	1.1669+03	3.8259+04
22	4.4222+04	1.1403+03	-6.2884+03	-1.7601-02	1.1669+03	3.7899+04
23	4.4272+04	1.1403+03	-6.1537+03	-1.7224-02	1.1669+03	3.7848+04
24	4.4021+04	1.1404+03	-6.1421+03	-1.7191-02	1.1670+03	3.7979+04
25	4.3948+04	1.1452+03	-5.8534+03	-1.6390-02	1.1714+03	3.7454+04
26	4.3861+04	1.1453+03	-5.8359+03	-1.6341-02	1.1714+03	3.7226+04
27	4.4038+04	1.1453+03	-5.8115+03	-1.6273-02	1.1715+03	3.7365+04
28	4.5451+04	1.1466+03	-7.3524+03	-2.0596-02	1.1745+03	3.9675+04
29	4.5237+04	1.1467+03	-7.6347+03	-2.1387-02	1.1744+03	3.9493+04
30	4.5451+04	1.1466+03	-7.6382+03	-2.1397-02	1.1743+03	3.9545+04
31	4.5477+04	1.1489+03	-8.3700+03	-2.3453-02	1.1771+03	3.9970+04
32	4.6130+04	1.1487+03	-8.2447+03	-2.3102-02	1.1771+03	4.0093+04
33	4.5824+04	1.1489+03	-8.2538+03	-2.3128-02	1.1770+03	3.9736+04

# CONDENSING DATA REDUCTION

	367	372	374	389	399	401
	TWO B	HCON B	NUC B	TWI TC	Q/A TC	TWO TC
1	1.1271+03	-1.3344+04	-3.7288-02	1.1541+03	3.1880+04	1.1317+03
2	1.1272+03	-1.3059+04	-3.6492-02	1.1541+03	3.1469+04	1.1320+03
3	1.1273+03	-1.2894+04	-3.6031-02	1.1542+03	3.1542+04	1.1321+03
4	1.1429+03	-1.1077+04	-3.1002-02	1.1701+03	3.3497+04	1.1467+03
5	1.1430+03	-1.1330+04	-3.1711-02	1.1700+03	3.3218+04	1.1468+03
6	1.1430+03	-1.0842+04	-3.0345-02	1.1703+03	3.3713+04	1.1467+03
7	1.1474+03	-1.0486+04	-2.9364-02	1.1751+03	3.4174+04	1.1512+03
8	1.1474+03	-1.0787+04	-3.0206-02	1.1751+03	3.4132+04	1.1512+03
9	1.1474+03	-1.0943+04	-3.0642-02	1.1751+03	3.4154+04	1.1512+03
10	1.1523+03	-1.0834+04	-3.0354-02	1.1801+03	3.4581+04	1.1560+03
11	1.1524+03	-1.0063+04	-2.8193-02	1.1800+03	3.4243+04	1.1561+03
12	1.1523+03	-1.0863+04	-3.0435-02	1.1801+03	3.4582+04	1.1560+03
13	1.1463+03	-1.2209+04	-3.4191-02	1.1753+03	3.6006+04	1.1501+03
14	1.1462+03	-1.3019+04	-3.6458-02	1.1752+03	3.6030+04	1.1500+03
15	1.1462+03	-1.3372+04	-3.7449-02	1.1751+03	3.5776+04	1.1500+03
16	1.1439+03	-1.2775+04	-3.5768-02	1.1730+03	3.6298+04	1.1476+03
17	1.1439+03	-1.3338+04	-3.7344-02	1.1730+03	3.6255+04	1.1476+03
18	1.1439+03	-1.3309+04	-3.7262-02	1.1730+03	3.6301+04	1.1476+03
19	1.1401+03	-1.3366+04	-3.7411-02	1.1699+03	3.7591+04	1.1435+03
20	1.1402+03	-1.4393+04	-4.0285-02	1.1697+03	3.7356+04	1.1436+03

# CONDENSING DATA REDUCTION

	367	372	374	389	399	401
	TWO B	HCON B	NUC B	TWI TC	Q/A TC	TWO TC
21	1.1401+03	-1.3135+04	-3.6764-02	1.1698+03	3.7503+04	1.1435+03
22	1.1403+03	-1.4364+04	-4.0206-02	1.1698+03	3.7136+04	1.1438+03
23	1.1404+03	-1.3442+04	-3.7625-02	1.1699+03	3.7181+04	1.1439+03
24	1.1403+03	-1.3102+04	-3.6671-02	1.1698+03	3.6931+04	1.1440+03
25	1.1452+03	-1.2654+04	-3.5434-02	1.1745+03	3.6702+04	1.1488+03
26	1.1453+03	-1.2835+04	-3.5940-02	1.1745+03	3.6614+04	1.1489+03
27	1.1453+03	-1.2708+04	-3.5585-02	1.1746+03	3.6790+04	1.1489+03
28	1.1467+03	-1.7718+04	-4.9633-02	1.1769+03	3.8150+04	1.1503+03
29	1.1467+03	-1.9639+04	-5.5014-02	1.1768+03	3.7936+04	1.1503+03
30	1.1466+03	-2.0699+04	-5.7984-02	1.1768+03	3.8152+04	1.1502+03
31	1.1492+03	-2.2098+04	-6.1921-02	1.1792+03	3.8130+04	1.1526+03
32	1.1491+03	-2.2930+04	-6.4253-02	1.1795+03	3.8789+04	1.1523+03
33	1.1492+03	-2.3794+04	-6.6672-02	1.1794+03	3.8481+04	1.1525+03

# CONDENSING DATA REDUCTION

	406	408	424	434	436	440
	HCONDTC	NUC TC	TWI BC	Q/A BC	TWO BC	HCONBC
1	7.0431+03	1.9703-02	1.1541+03	3.3510+04	1.1306+03	7.3694+03
2	6.9296+03	1.9385-02	1.1541+03	3.3471+04	1.1306+03	7.4446+03
3	6.8890+03	1.9272-02	1.1544+03	3.3566+04	1.1308+03	7.5300+03
4	7.2514+03	2.0318-02	1.1706+03	3.4540+04	1.1464+03	8.2500+03
5	6.9989+03	1.9610-02	1.1705+03	3.4319+04	1.1465+03	8.0258+03
6	7.5031+03	2.1023-02	1.1707+03	3.4504+04	1.1465+03	8.3683+03
7	7.3984+03	2.0740-02	1.1757+03	3.5441+04	1.1509+03	8.8912+03
8	7.0950+03	1.9890-02	1.1758+03	3.5484+04	1.1510+03	8.6999+03
9	7.1081+03	1.9927-02	1.1758+03	3.5481+04	1.1510+03	8.6006+03
10	7.1550+03	2.0068-02	1.1809+03	3.5790+04	1.1559+03	8.7077+03
11	7.3336+03	2.0569-02	1.1808+03	3.5609+04	1.1560+03	9.1932+03
12	7.2317+03	2.0283-02	1.1808+03	3.5599+04	1.1559+03	8.6076+03
13	6.9407+03	1.9458-02	1.1762+03	3.7780+04	1.1498+03	8.8354+03
14	6.7384+03	1.8891-02	1.1761+03	3.7602+04	1.1498+03	8.3882+03
15	6.5340+03	1.8318-02	1.1760+03	3.7466+04	1.1498+03	8.1991+03
16	6.8406+03	1.9174-02	1.1740+03	3.7931+04	1.1474+03	8.6583+03
17	6.6980+03	1.8774-02	1.1739+03	3.7748+04	1.1475+03	8.3497+03
18	6.7129+03	1.8816-02	1.1739+03	3.7842+04	1.1474+03	8.3965+03
19	7.3625+03	2.0630-02	1.1705+03	3.8402+04	1.1436+03	8.6566+03
20	6.9996+03	1.9613-02	1.1704+03	3.8082+04	1.1437+03	8.1644+03

# CONDENSING DATA REDUCTION

	406	408	424	434	436	440
	HCBNTC	NUC TC	TWI BC	Q/A BC	TWO BC	HCONBC
21	7.1885+03	2.0142-02	1.1706+03	3.8625+04	1.1436+03	8.8414+03
22	6.8912+03	1.9310-02	1.1706+03	3.8262+04	1.1438+03	8.2296+03
23	7.1146+03	1.9935-02	1.1707+03	3.8211+04	1.1439+03	8.5492+03
24	7.0319+03	1.9704-02	1.1707+03	3.8342+04	1.1438+03	8.7441+03
25	7.2621+03	2.0358-02	1.1752+03	3.7798+04	1.1488+03	8.6376+03
26	7.2563+03	2.0341-02	1.1751+03	3.7568+04	1.1488+03	8.4707+03
27	7.3789+03	2.0685-02	1.1752+03	3.7708+04	1.1488+03	8.5780+03
28	5.9138+03	1.6584-02	1.1782+03	4.0017+04	1.1503+03	7.7995+03
29	5.6534+03	1.5854-02	1.1781+03	3.9833+04	1.1503+03	7.4279+03
30	5.7067+03	1.6004-02	1.1781+03	3.9886+04	1.1502+03	7.2997+03
31	5.2621+03	1.4761-02	1.1809+03	4.0299+04	1.1527+03	7.2135+03
32	5.4753+03	1.5360-02	1.1809+03	4.0426+04	1.1526+03	7.1573+03
33	5.3988+03	1.5145-02	1.1808+03	4.0066+04	1.1528+03	6.9967+03



# CONDENSING DATA REDUCTION

	442	450	451	452	453	610
	NUC BC	PSI HD	PI	PO	DPC	PIC
1	2.0615-02	1.5354-01	3.2707+00	3.1510+00	1.1970-01	3.4044+00
2	2.0826-02	1.5438-01	3.2687+00	3.1523+00	1.1647-01	3.4024+00
3	2.1065-02	1.5362-01	3.2737+00	3.1550+00	1.1864-01	3.4074+00
4	2.3116-02	1.5198-01	3.6508+00	3.5070+00	1.4378-01	3.8034+00
5	2.2488-02	1.5193-01	3.6518+00	3.5077+00	1.4413-01	3.8046+00
6	2.3447-02	1.5321-01	3.6508+00	3.5091+00	1.4168-01	3.8034+00
7	2.4925-02	1.5214-01	3.7731+00	3.6259+00	1.4718-01	3.9334+00
8	2.4389-02	1.5333-01	3.7814+00	3.6270+00	1.5444-01	3.9419+00
9	2.4111-02	1.5293-01	3.7803+00	3.6294+00	1.5089-01	3.9408+00
10	2.4423-02	1.5003-01	3.9167+00	3.7467+00	1.7004-01	4.0853+00
11	2.5784-02	1.5125-01	3.9073+00	3.7433+00	1.6394-01	4.0751+00
12	2.4142-02	1.4959-01	3.9145+00	3.7463+00	1.6819-01	4.0829+00
13	2.4770-02	1.7253-01	3.7881+00	3.6508+00	1.3731-01	3.9487+00
14	2.3517-02	1.7178-01	3.7920+00	3.6490+00	1.4294-01	3.9527+00
15	2.2987-02	1.7304-01	3.7936+00	3.6476+00	1.4600-01	3.9544+00
16	2.4269-02	1.7411-01	3.7321+00	3.5990+00	1.3311-01	3.8914+00
17	2.3404-02	1.7527-01	3.7365+00	3.5979+00	1.3857-01	3.8960+00
18	2.3535-02	1.7651-01	3.7348+00	3.5976+00	1.3725-01	3.8942+00
19	2.4256-02	1.7912-01	3.6492+00	3.5192+00	1.2996-01	3.8017+00
20	2.2877-02	1.8082-01	3.6518+00	3.5217+00	1.3014-01	3.8046+00

# CONDENSING DATA REDUCTION

	442	450	451	452	453	610
	NUC BC	PSI HD	PI	PO	DPC	PIC
21	2.4773-02	1.8149-01	3.6476+00	3.5210+00	1.2664-01	3.8000+00
22	2.3060-02	1.8087-01	3.6592+00	3.5220+00	1.3713-01	3.8125+00
23	2.3955-02	1.8089-01	3.6534+00	3.5224+00	1.3101-01	3.8063+00
24	2.4501-02	1.7894-01	3.6508+00	3.5224+00	1.2839-01	3.8034+00
25	2.4214-02	1.6993-01	3.7659+00	3.6266+00	1.3927-01	3.9260+00
26	2.3746-02	1.6977-01	3.7637+00	3.6277+00	1.3600-01	3.9238+00
27	2.4047-02	1.6862-01	3.7665+00	3.6280+00	1.3842-01	3.9266+00
28	2.1873-02	1.7947-01	3.8635+00	3.7193+00	1.4415-01	4.0278+00
29	2.0831-02	1.8024-01	3.8701+00	3.7190+00	1.5116-01	4.0350+00
30	2.0471-02	1.8064-01	3.8729+00	3.7176+00	1.5533-01	4.0380+00
31	2.0235-02	1.8086-01	3.9456+00	3.7947+00	1.5082-01	4.1165+00
32	2.0078-02	1.7962-01	3.9500+00	3.7944+00	1.5563-01	4.1213+00
33	1.9627-02	1.7915-01	3.9489+00	3.7947+00	1.5415-01	4.1201+00

# CONDENSING DATA REDUCTION

	611	612	700	495	701	498
	PBC	DPCC	X B	WKL B	X T	WKL T
1	3.5086+00	-1.0424-01	6.4406-01	9.1339+00	6.4406-01	9.1339+00
2	3.5101+00	-1.0770-01	6.4581-01	9.1108+00	6.4581-01	9.1108+00
3	3.5132+00	-1.0583-01	6.4474-01	9.1235+00	6.4474-01	9.1235+00
4	3.9081+00	-1.0470-01	6.2343-01	1.0194+01	6.2343-01	1.0194+01
5	3.9089+00	-1.0432-01	6.2320-01	1.0200+01	6.2320-01	1.0200+01
6	3.9104+00	-1.0697-01	6.2478-01	1.0198+01	6.2478-01	1.0198+01
7	4.0374+00	-1.0401-01	6.0536-01	1.0868+01	6.0536-01	1.0868+01
8	4.0386+00	-9.6653-02	6.0345-01	1.0975+01	6.0345-01	1.0975+01
9	4.0413+00	-1.0054-01	6.0435-01	1.0934+01	6.0435-01	1.0934+01
10	4.1712+00	-8.5882-02	5.8901-01	1.1445+01	5.8901-01	1.1445+01
11	4.1677+00	-9.2586-02	5.9165-01	1.1405+01	5.9165-01	1.1405+01
12	4.1708+00	-8.7892-02	5.8958-01	1.1410+01	5.8958-01	1.1410+01
13	4.0652+00	-1.1651-01	5.9711-01	1.1838+01	5.9711-01	1.1838+01
14	4.0633+00	-1.1057-01	5.9500-01	1.1880+01	5.9500-01	1.1880+01
15	4.0617+00	-1.0731-01	5.9436-01	1.1945+01	5.9436-01	1.1945+01
16	4.0073+00	-1.1587-01	5.9715-01	1.1805+01	5.9715-01	1.1805+01
17	4.0061+00	-1.1014-01	5.9559-01	1.1897+01	5.9559-01	1.1897+01
18	4.0057+00	-1.1146-01	5.9611-01	1.1921+01	5.9611-01	1.1921+01
19	3.9214+00	-1.1963-01	5.9018-01	1.2041+01	5.9018-01	1.2041+01
20	3.9240+00	-1.1944-01	5.9023-01	1.2101+01	5.9023-01	1.2101+01

# CONDENSING DATA REDUCTION

	611	612	700	495	701	498
	PBC	DPCC	X B	WKL B	X T	WKL T
21	3.9233+00	-1.2322-01	5.9163-01	1.2075+01	5.9163-01	1.2075+01
22	3.9244+00	-1.1187-01	5.8195-01	1.2360+01	5.8195-01	1.2360+01
23	3.9248+00	-1.1849-01	5.8405-01	1.2289+01	5.8405-01	1.2289+01
24	3.9248+00	-1.2133-01	5.8474-01	1.2198+01	5.8474-01	1.2198+01
25	4.0382+00	-1.1221-01	5.7995-01	1.2214+01	5.7995-01	1.2214+01
26	4.0394+00	-1.1566-01	5.8113-01	1.2170+01	5.8113-01	1.2170+01
27	4.0398+00	-1.1321-01	5.8017-01	1.2161+01	5.8017-01	1.2161+01
28	4.1417+00	-1.1384-01	5.7622-01	1.2822+01	5.7622-01	1.2822+01
29	4.1413+00	-1.0626-01	5.7413-01	1.2923+01	5.7413-01	1.2923+01
30	4.1397+00	-1.0169-01	5.7295-01	1.2978+01	5.7295-01	1.2978+01
31	4.2219+00	-1.0536-01	5.7288-01	1.3106+01	5.7288-01	1.3106+01
32	4.2215+00	-1.0018-01	5.7132-01	1.3116+01	5.7132-01	1.3116+01
33	4.2219+00	-1.0176-01	5.7173-01	1.3085+01	5.7173-01	1.3085+01

# CONDENSING DATA REDUCTION

	504	507
	NREF T	NREF B
1	6.0787+02	6.0787+02
2	6.0633+02	6.0633+02
3	6.0725+02	6.0725+02
4	6.8630+02	6.8630+02
5	6.8673+02	6.8673+02
6	6.8664+02	6.8664+02
7	7.3431+02	7.3431+02
8	7.4165+02	7.4165+02
9	7.3890+02	7.3890+02
10	7.7630+02	7.7630+02
11	7.7340+02	7.7340+02
12	7.7385+02	7.7385+02
13	8.0031+02	8.0031+02
14	8.0319+02	8.0319+02
15	8.0759+02	8.0759+02
16	7.9687+02	7.9687+02
17	8.0311+02	8.0311+02
18	8.0469+02	8.0469+02
19	8.1080+02	8.1080+02
20	8.1491+02	8.1491+02

# CONDENSING DATA REDUCTION

	504	507
	NREF T	NREF B
21	8.1307+02	8.1307+02
22	8.3243+02	8.3243+02
23	8.2757+02	8.2757+02
24	8.2140+02	8.2140+02
25	8.2519+02	8.2519+02
26	8.2223+02	8.2223+02
27	8.2164+02	8.2164+02
28	8.6869+02	8.6869+02
29	8.7562+02	8.7562+02
30	8.7936+02	8.7936+02
31	8.8993+02	8.8993+02
32	8.9065+02	8.9065+02
33	8.8850+02	8.8850+02